



# Stormwater Pollution Prevention Plan

*for:*

**Frederick County Highway Operations  
District #3 - Myersville Satellite Facility  
10917 Pleasant Walk Road  
Myersville, MD 21773  
301-293-1124**

## Emergency Spill Remediation Contractor

- DFRS / Hazmat 911 or non-emergency#  
**301-600-1603**
- Burns Septic & Tank Cleaning, Inc.  
2360 Dairyland Dr.  
Westminster, MD 21588  
**1-877-89-BURNS (28767/410-833-5857)**
- Floyd E. Cline & Sons, Inc.  
3434 Brethren Church Rd,  
Myersville, MD 21773  
**301-293-2983**

## SWPP Contact(s)

Gale Reeder, District 3 Foreman  
10917 Pleasant Walk Road  
Myersville, MD 21773  
301-293-1124

Emergency Phone: 240-674-1511  
[greeder@frederickcountymd.gov](mailto:greeder@frederickcountymd.gov)

Tom Green, Assistant District Foreman  
10917 Pleasant Walk Road  
Myersville, MD 21773  
301-293-1124

Emergency Phone: 240-344-9406  
[tgreen@frederickcountymd.gov](mailto:tgreen@frederickcountymd.gov)

Use whichever of the two private contractors is most immediately available.

**SWPP Preparation Date:**

**March 2012**



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## SECTION 1: FACILITY DESCRIPTION AND CONTACT INFORMATION

### 1.1 Facility Information

**Name of Facility:** Frederick County Highway Operations - Myersville Satellite Facility

**Street:** 10917 Pleasant Walk Road

**City:** Myersville

**State:** MD

**ZIP Code:** 21773

**County or Similar Subdivision:** Frederick County

**Latitude/Longitude** (Use one of three possible formats, and specify method)

**Latitude:**

1. \_\_\_° \_\_\_' \_\_\_" N (degrees, minutes, seconds)
2. \_\_\_° \_\_\_' \_\_\_" N (degrees, minutes, decimal)
3. 39.532239° N (decimal)

**Longitude:**

1. \_\_\_° \_\_\_' \_\_\_" W (degrees, minutes, seconds)
2. \_\_\_° \_\_\_' \_\_\_" W (degrees, minutes, decimal)
3. -77.59516° W (decimal)

**Method for determining latitude/longitude** (check one):

☐ USGS topographic map (specify scale: \_\_\_\_\_)

☒ EPA Web site

☐ GPS

☐ Other (please specify): \_\_\_\_\_

**Estimated area of industrial activity at site exposed to stormwater:** 8.26 (acres)

### Discharge Information

**Does this facility discharge stormwater into an MS4?** ☒ Yes ☐ No

If yes, name of MS4 operator: Frederick County

**Name(s) of water(s) that receive stormwater from your facility:** Stormwater leaving the facility drains into a stormwater facility which ultimately drains into an unnamed tributary of Grindstone Run.

**Are any of your discharges directly into any segment of an "impaired" water?** ☐ Yes ☒ No

If Yes, identify name of the impaired water (and segment, if applicable): \_\_\_\_\_

Identify the pollutant(s) causing the impairment: \_\_\_\_\_

For pollutants identified, which do you have reason to believe will be present in your discharge? \_\_\_\_\_

For pollutants identified, which have a completed TMDL? \_\_\_\_\_

**Do you discharge into a receiving water designated as a Tier 2 (or Tier 2.5) water?** ☐ Yes ☒ No

**Are any of your stormwater discharges subject to effluent guidelines?** ☐ Yes ☒ No

If Yes, which guidelines apply? \_\_\_\_\_

**Primary SIC Code or 2-letter Activity Code:** Division J Public Administration; Major Group 91; General Government

**Identify your applicable sector and subsector:** Industry Group 919: General Government, Not Elsewhere Classified

## 1.2 Contact Information/Responsible Parties

### Facility Owner (s):

**Name:** Board of County Commissioners of Frederick County, MD  
**Address:** 12 E. Church St.  
**City, State, Zip Code:** Frederick MD 21701  
**Telephone Number:** 301-600-1100  
**Email address:** [countycommissioners@frederickcountymd.gov](mailto:countycommissioners@frederickcountymd.gov)  
**Fax number:** 301-600-1849

### Facility Operator (s):

**Name:** Bill Routzahn, Superintendent, Frederick County Highway Operations  
**Address:** 331 Montevue Lane  
**City, State, Zip Code:** Frederick MD 21702  
**Telephone Number:** 301-600-1555  
**Email address:** [broutzahn@frederickcountymd.gov](mailto:broutzahn@frederickcountymd.gov)

### SWPPP Contact:

**Name:** Gale Reeder, District 3 Foreman  
**Telephone number:** 301-293-1124  
**Cell Phone #:** 240-674-1511  
**Email address:** [greeder@frederickcountymd.gov](mailto:greeder@frederickcountymd.gov)

**Name:** Tom Green, Assistant District 3 Foreman  
**Telephone number:** 301-293-1124  
**Cell Phone #:** 240-344-9406  
**Email address:** [tgreen@frederickcountymd.gov](mailto:tgreen@frederickcountymd.gov)

**Name:** Brian Smith, Structure Crew Foreman  
**Telephone number:** 301-293-1124  
**Cell Phone #:** 240-674-1503  
**Email address:** [bsmith@frederickcountymd.gov](mailto:bsmith@frederickcountymd.gov)

**Name:** Mike Ramsburg, Maintenance Section Supervisor  
**Telephone number:** 301-600-3453  
**Cell Phone #:** 301-898-1780  
**Email address:** [mramsburg@frederickcountymd.gov](mailto:mramsburg@frederickcountymd.gov)

## 1.3 Stormwater Pollution Prevention Team

Staff Names	Individual Responsibilities
Gale Reeder, District 3 Foreman	SWPP team leader and emergency contact. Planning and supervision of all pollution prevention activities related to this SWPPP. Custodian of SWPPP and adds records and updates as necessary as a result of major changes in the facility's design, construction, operation, or maintenance.

Tom Green, Asst. District Foreman	<p>Does Routine site inspections.</p> <p>Makes sure salt is properly contained within salt dome after loading and unloading operations.</p> <p>Secondary SWPPP and emergency contact. Planning and supervision of the implication of all pollution prevention activities related to this SWPPP.</p> <p>Monitors loading and unloading areas for spills and is responsible for cleaning up spills or designates staff to do so.</p> <p>Cleans out stormwater ponds of floatables/garbage on monthly basis and looks for signs of staining or non-stormwater discharges into and out of pond.</p>
Donnie, Crum, Asst. Superintendent	<p>Does Comprehensive Annual site inspections.</p>

#### 1.4 Activities at the Facility

This facility is a storage yard for highway operations equipment, employee parking, a covered salt dome, an office trailer, a storage building for assorted materials, and 3-sided garage for large trucks and equipment. The facility also has various uncovered soil, stone, vegetation and mulch stockpiles.

Typically, the facility operates 7 am – 4 pm Monday - Friday, and maintains a staff of approximately 20 people. Regular maintenance of vehicles is not done at this facility, aside from incidental repairs.

The entire facility area is served by an extended detention dry stormwater pond with forebay.

## 1.5 General Location Map

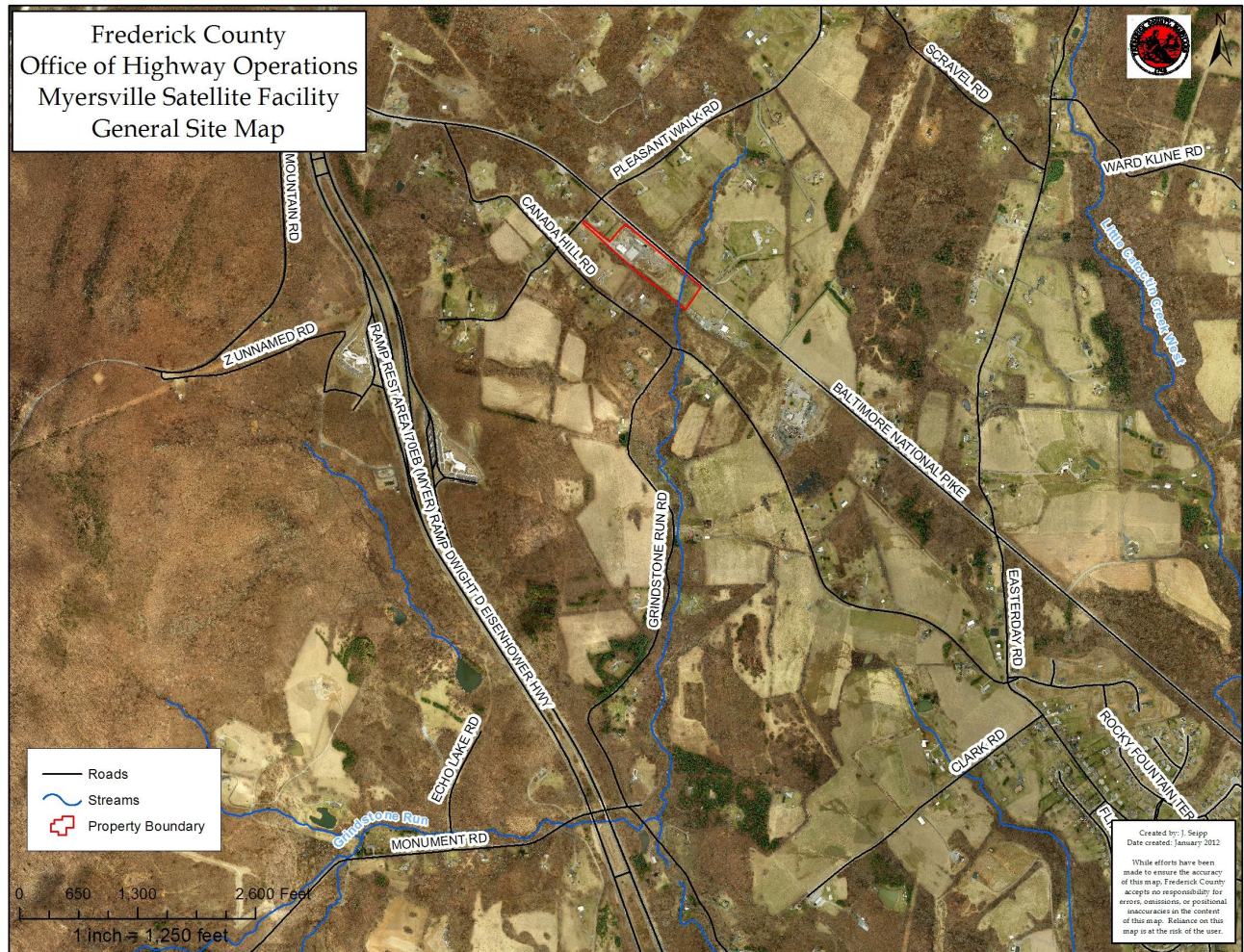


Figure 1-1. General Location Map (larger map included in Attachment A)



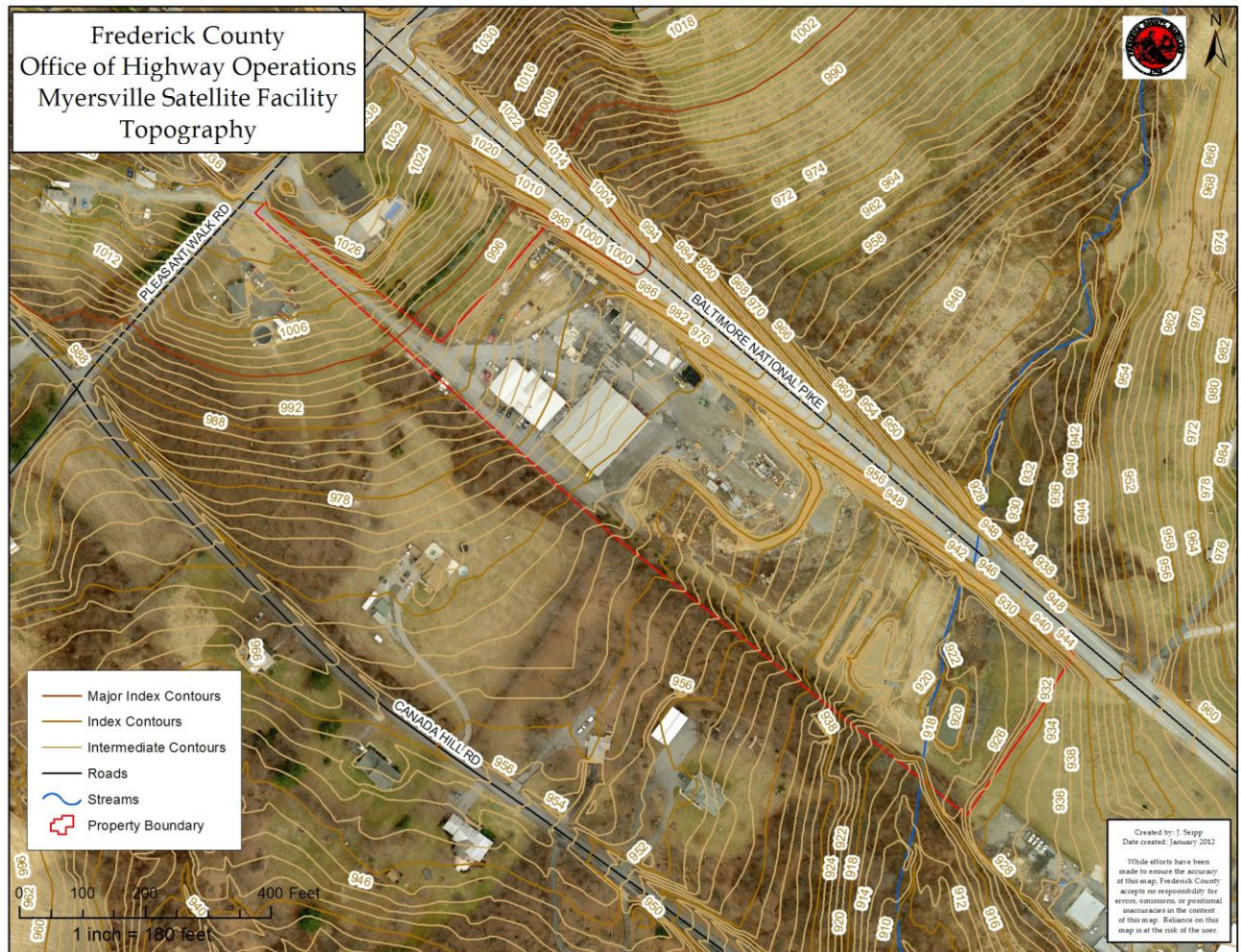


Figure 1-2. Topographic map



## 1.6 Site Map



Figure 1-3. Site map (larger map included in Attachment B)

## SECTION 2: POTENTIAL POLLUTANT SOURCES

### 2.1 Industrial Activity and Associated Pollutants

Industrial Activity	Associated Pollutants
Loading and unloading of deicing materials	Sodium chloride, Anti-skid, Caliber liquid deicer (M-1000).
Incidental repairs of heavy equipment/machinery	Hydraulic fluid, diesel fuel, grease.
Soil, stone, sand, mulch stockpiles	Sediment (into extended detention dry pond)
Movement of 100 gallon fuel tank from truck beds	Diesel fuel and gasoline.
Small mechanical equipment repair and fueling	Petroleum products (2 stroke oil, chain lubricants, gasoline)

A complete list of all materials potentially stored on-site is included in Attachment J.

### 2.2 Spills and Leaks

#### Areas of Site Where Potential Spills/Leaks Could Occur

Location	Outfalls
Ruptures from truck and heavy equipment fuel tanks and/or hydraulic lines.	Into stormwater management pond
Salt dome entrance, Caliber M1000 storage tank	Into stormwater management pond
Sediment, stone, mulch stock piles	Into stormwater management pond

#### 2.2.1 Description of Past Spills/Leaks

No spills have been reported at this facility in past 3 years. See Attachment F for recent spills.

### 2.3 Non-Stormwater Discharges Documentation

Date of evaluation: 2/2/2012

Description of the evaluation criteria used:

A walk-through of the property during a dry day (no precipitation) yielded no dry weather flows into or out of dry stormwater management pond. No further action is required.

### 2.4 Salt Storage

A salt dome is present at this facility as per the site map as is a 6000 gallon tank of Caliber M-1000 de-icing agent and MgCl blend anti-icing agent (salt solution). See MSDS sheet in Attachment I.

## **2.5 Sampling Data Summary**

No water quality monitoring has been done to date.



## **SECTION 3: STORMWATER CONTROL MEASURES**

### **3.1 Minimize Exposure**

All salt storage is under roof at this facility. Vehicles or heavy equipment are never washed nor maintained at this facility. Any outdoor pressure washing happens without the use of detergents.

### **3.2 Good Housekeeping**

The good housekeeping program includes the following components:

- Trucks are kept within a 3-sided garage when not in use.
- All small mechanical equipment and related chemicals necessary for their operation as well as small gasoline containers are kept indoors.
- Containers of motor oil, grease, gear oil, and other fluids are maintained in interior areas of the buildings so as to minimize exposure to precipitation.
- Salt is kept within confines of salt barn at all times when active deliveries aren't being made or salt spreader loading isn't occurring.

### **3.3 Preventive Maintenance**

The Preventative Maintenance Program includes the regular inspection and maintenance, not only of stormwater management control structures (e.g., the stormwater pond), but also equipment and systems that can impact stormwater quality (e.g., aboveground tanks and secondary containment). Our preventative maintenance program includes the following:

- All stormwater management devices are inspected on a tri-annual basis by the Frederick County Environmental Compliance Section and can be reached at (301) 600-3507. Frederick Highway Operations maintains vegetation within all stormwater management ponds and can be reached at (301) 600-1564.
- The Highway Operations District Foreman inspects the stormwater pond regularly. On a monthly basis he/she removes floatables and, when needed, unblocks the inlet and/or outlet pipe and removes sediments from bottom of the device or as directed by the Frederick County Environmental Compliance Section.
- All equipment is checked on a routine basis for leaks and scheduled for repair if leaking. Driver's Vehicle Inspection Reports are mandatory each time a vehicle or piece of equipment is used which includes reporting of any hydraulic or oil leaks (Figure 3-1).

## DRIVER'S VEHICLE INSPECTION REPORT

Completion of this report required by Federal Law 49 CFR 396.11 & 396.13

5022325

Location \_\_\_\_\_ Date \_\_\_\_\_

Truck/Tractor \_\_\_\_\_ Trailer #1 \_\_\_\_\_

Dolly \_\_\_\_\_ Trailer #2 \_\_\_\_\_

Odometer Mileage \_\_\_\_\_

Check <input checked="" type="checkbox"/>	Explain any Defects
<input type="checkbox"/>	Engine
<input type="checkbox"/>	Transmission
<input type="checkbox"/>	Clutch
<input type="checkbox"/>	Steering Mechanism
<input type="checkbox"/>	Horn
<input type="checkbox"/>	Windshield Wipers/Washers
<input type="checkbox"/>	Rear Vision Mirrors
<input type="checkbox"/>	Lighting Devices and Reflectors
<input type="checkbox"/>	Parking Brake
<input type="checkbox"/>	Service Brakes
<input type="checkbox"/>	Air Lines/Light Lines
<input type="checkbox"/>	Coupling Devices
<input type="checkbox"/>	Tires
<input type="checkbox"/>	Wheels and Rims
<input type="checkbox"/>	Emergency Equipment
<input type="checkbox"/>	Other

☐ Vehicle condition OK  
(This must be checked if  
there are no defects)

Reporting Driver's Signature \_\_\_\_\_

☐ Defects do not need to  
be corrected for safe  
operation

☐ Defects Corrected

Certified by: \_\_\_\_\_  
Mechanic's Signature

Reviewing Driver's Signature \_\_\_\_\_

WHITE - MAINTENANCE  
CANARY - DRIVER REVIEW

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Figure 3-1. Driver's Vehicle Inspection Report

## 3.4 Spill/Discharge/Release Prevention and Response

### 3.4.1 Spill Prevention

The basic procedures for prevention of spills, discharges or releases of liquids or raw materials is as follows:

- All spills are isolated using absorbent pads and booms if necessary and then they are cleaned up immediately using absorbent. The spent absorbent is swept up and disposed of in sealed garbage bags.
- Spill control equipment is maintained and stored in adequate supply at locations of potential spills which is primarily the 3-sided garage where heavy equipment with fuel tanks is parked.
- Oil drip pans and absorbents are available to deal with spills until they can be repaired.
- Regularly inspect vehicles/equipment for leaks.
- The lids of containers holding liquids are securely fastened at all times; including those of drums which are stored outdoors awaiting disposal (regardless of whether they are empty or have product in them). It is preferable that drums be stored inside if they have product in them.
- Pads, drip pans, and funnels are used when transferring petroleum products from a portable container or tank.
- Protect oil containers from damage by moving vehicles/equipment.
- County staff will not store oils or other liquids such as detergents, solvents, paints, acids, coolants, urea liquid for diesel emissions, etc. where they can be exposed to precipitation unless the container is meant for outdoor storage.
- Loading and unloading of powdered or liquid raw materials into facilities is attended at all times.
- All raw materials containers, no matter the size, are to be labeled so that the contents are known.
- Storage of all 55 gallon drums of petroleum and other liquids is on or in secondary containment vessels at all times.
- The grader and other heavy equipment which sit outdoors all year are regularly checked for hydraulic oil and oil leaks.

### 3.4.2 Spill Response

#### ***Minor Spills***

“Minor” Spills are considered to be those of less than 5 gallons which pose no significant harm to human health or the environment and have not entered the storm sewer system, stormwater pond, water body or the groundwater table. These spills can usually be cleaned up by on-site staff.

In this case staff can use absorbent pads, booms, and absorbent powders to contain spills. Dispose of materials appropriately.

The SWPPP Team leader listed in this document must be notified and the spill documented as per the Spill Reporting procedures detailed in Section 3.4.3.

### **Major Spills**

A “Major” Spill is any spill that is not a minor spill. **A major spill is considered an emergency.** It is a spill that cannot be safely contained by staff or cleaned up and/or has made its way into the storm sewer system, stormwater pond, waterbody or groundwater table.

In this case staff should contact the emergency spill remediation contractors listed in the first pages of this document. SWPPP Team members must be notified and the spill documented as per Spill Reporting procedures detailed below.

For additional spill response procedures relating to petroleum liquids, as well as fuel loading and unloading procedures, follow the instruction in the Spill Prevention Control and Countermeasures Plan (SPCC) for this facility.

### **3.4.3 Spill Reporting**

All “minor” spills should be reported immediately but no later than two (2) hours after their detection to Agency #1 listed below.

All “major” spills should be reported immediately but no later than two (2) hours after their detection to both Agency #1 and Agency #2 listed below.

- 1.**
  - **MARYLAND DEPARTMENT OF THE ENVIRONMENT**
  - **1-(866) 633-4686, available on a 24-hour basis.**
- 2.**
  - **NATIONAL RESPONSE CENTER**
  - **1-(800) 424-8802, available on a 24-hour basis.**

The Stormwater Pollution Prevention Team will contact the designated spill remediation contractor if the spill has reached the storm sewer system, stormwater pond, waterbody or groundwater or if it cannot be safely contained by facility staff.

All spills must be documented by the Stormwater Pollution Prevention Team members or other designated personnel using the form provided in Attachment F and also reported to the Assistant Superintendent of Highway Operations. The spill documentation will summarize the date of the incident, type of material and estimated quantity lost, cause of the incident, and remediation measures applied to reduce or eliminate the problem.

**Gale Reeder, District 3 Foreman, is the designated person responsible for spill prevention at Myersville Satellite Facility**

Attachment F contains blank Spill/Release Incident Reporting Forms and a place to store filled forms as a permanent record of spills and leaks.

### **3.5 Erosion and Sediment Controls**

The facility is served by a stormwater management pond which is capturing sediment from the primary vehicle storage and salt dome area. The stockpile area is served by a sediment trap.

### **3.6 Management of Runoff**

This site is served by a dry extended detention device with quantity and quality control followed by a rap-rap filled infiltration basin at the outfall. All stormwater management devices are inspected on a tri-annual basis by the Frederick County Environmental Compliance Section and can be reached at (301) 600-3507. Frederick Highway Operations maintains vegetation within all stormwater management ponds and can be reached at (301) 600-1564.

### **3.7 Salt Storage Piles or Piles Containing Salt**

Salt for road deicing is stored under roof in a single salt dome. Salt which spills during loading and unloading is immediately pushed back into the structure to prevent exposure to precipitation.

The county also has Standard Operating Procedures for Salt Management (Attachment H).

### **3.8 MSGP Sector-Specific Non-Numeric Effluent Limits**

Sector specific non-numeric effluent limits are not applicable to this facility.

### **3.9 Employee Training**

All staff working at this facility are trained once per year on stormwater pollution prevention planning. Both the curriculum as well as a sign-in sheet with names of trained employees is included in this plan as a record of training. New employees are trained upon entering the workforce.

Attachment G is set aside for "Records of Training Curriculum and Student Attendance Forms".

Stormwater pollution prevention trainings include spill reporting protocols, management of salt and other deicers, oily liquids management, spent solvent management, disposal of spent abrasives, spill prevention control and countermeasures, fueling procedures, fuel unloading procedures, general good housekeeping practices, painting and blasting procedures, and used battery management etc., as required.

### **3.10 Non-Stormwater Discharges**

Because this facility has no subterranean stormwater conveyance, and because all stormwater runoff enters the stormwater management pond as sheetflow, signs of non-storm discharges are evident on pavement leading to the pond and inside the pond surface.

Leaking equipment is kept indoors and oil pans are provided to catch leaks until said equipment can be repaired. Staff has access to absorbent powders to catch any petroleum products which may have leaked onto pavement under damaged equipment. Greasy mechanical parts are kept indoors and all outdoor dumpsters are covered at all times.

Absolutely no washing of equipment with detergents is allowed outdoors.

### **3.11 Waste, Garbage and Floatable Debris**

This facility is regularly cleaned of floatables by facility staff as part of their seasonal vegetation maintenance within the stormwater management ponds. Floatables found in the dry pond are also removed monthly as part of the routine SWPPP inspection in order to prevent discharge into waterway.

### **3.12 Dust Generation and Vehicle Tracking of Industrial Materials**

Other than salt for deicing purposes, raw materials are not tracked by equipment leaving the facility.

## **SECTION 4: Schedules and Procedures for Monitoring**

Sector P is not required to do stormwater monitoring.

## **SECTION 5: Inspections: Routine and Annual**

### **5.1 Routine Facility Inspections**

Routine facility inspections will be done by the SWPPP team member (indicated in Section 1.3) of all areas of the facility where industrial materials or activities are exposed to stormwater, and of all stormwater control measures. This routine inspection will be done using Attachment D – “Routine Facility Inspection Reports” form.

Routine facility inspections will be conducted at least quarterly (i.e., once each calendar quarter)

At least once each calendar year, the routine facility inspection will be conducted during a period when a stormwater discharge is occurring.

The completed Routine Facility Inspection Reports form will be kept in the SWPPP notebook.

### **5.2 Comprehensive (annual) site inspections**

A comprehensive site inspection will be done annually by the SWPPP team leader using the Comprehensive Annual Inspection Report form (Attachment E).

Personnel will verify that the description of potential pollutant sources is accurate, the drainage map has been updated to reflect current conditions, and the controls to reduce pollutants identified in the stormwater pollution prevention plan are being implemented and are adequate.

The site inspector will report his/her findings to the Assistant Superintendent of Highway Operations to ensure that each inspection results in an appropriate response.

Specific areas of the facility to be inspected include:

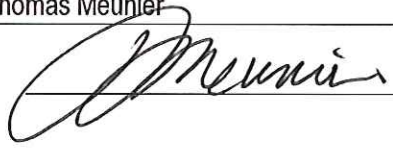
- The parking lot will be inspected for staining from leaking equipment.
- The inlet and outfall of the stormwater management pond will also be inspected on a routine basis during dry weather.
- All outdoor dumpster and loading/unloading areas will be inspected for signs of leaks/spills/stains.
- Indoor and outdoor vehicle/equipment maintenance areas will be inspected.

The completed Comprehensive Annual Report Inspection Form will be kept in the SWPPP notebook.



## SECTION 6: SWPPP CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: Thomas Meunier Title: Division Director, Division of Public Works  
Signature:  Date: 4/19/2012

## SECTION 6: SWPPP CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: Charles Nipe Title: Acting Director, Division of Public Works

Signature:  Date: 5/21/13



## SECTION 7: SWPPP MODIFICATIONS













Your SWPPP is a “living” document and is required to be modified and updated, as necessary, in response to corrective actions, changing activities or management practices.

- If you need to modify the SWPPP in response to a corrective action then the certification statement of this SWPPP template must be re-signed.
- For any other SWPPP modification, you should keep a log with a description of the modification, the name of the person making it, and the date and signature of that person.

\*\*\*\*\*  
**INSERT LOG of SWPPP MODIFICATIONS HERE  
or REFERENCE ANY ATTACHMENTS  
RELATING to SWPPP MODIFICATION**  
\*\*\*\*\*

**Jessica Seipp with the County’s Watershed Management Section (WMS) must be notified of and receive copies of any modifications to the SWPPP. She can be reached at 301.600.1350 or [jseipp@frederickcountymd.gov](mailto:jseipp@frederickcountymd.gov).**



SWPPP Modification Log			
Name of Facility: Myersville Satellite Facility			
Description of Modification	Name of Person making the modification	Date of modification	Signature of person making modification
Update of Salt Management Plan	Donnie Crum	05/04/12	
Updated list of emergency spill response contractors	Jessica Seipp/Donnie Crum	09/25/12	
Updated phone number for Floyd E. Cline – emergency spill contractor	Jessica Seipp/Donnie Crum	09/25/12	
Updated language in Section 3.4.3 to reflect proper spill response procedures.	Jessica Seipp/Donnie Crum	09/25/12	
Replaced Figure 1-3 and Attachment B	Jessica Seipp/Donnie Crum	09/25/12	
Replaced Quarterly Inspection form	Jessica Seipp/Donnie Crum	09/25/12	
Inserted internal spill response form	Jessica Seipp/Donnie Crum	09/25/12	
Inserted sign-in sheets from 2012 SWPPP/SPCC employee trainings	Jessica Seipp/Donnie Crum	09/25/12	
Inserted copies of power points from 2012 SWPPP/SPCC trainings	Jessica Seipp/Donnie Crum	09/25/12	
Replaced Annual/Comprehensive Inspection form	Jessica Seipp/Donnie Crum	11/01/12	
Inserted revised site map	Jessica Seipp/Donnie Crum	03/26/13	
Inserted revised Quarterly and Annual Inspection forms	Jessica Seipp/Donnie Crum	03/26/13	



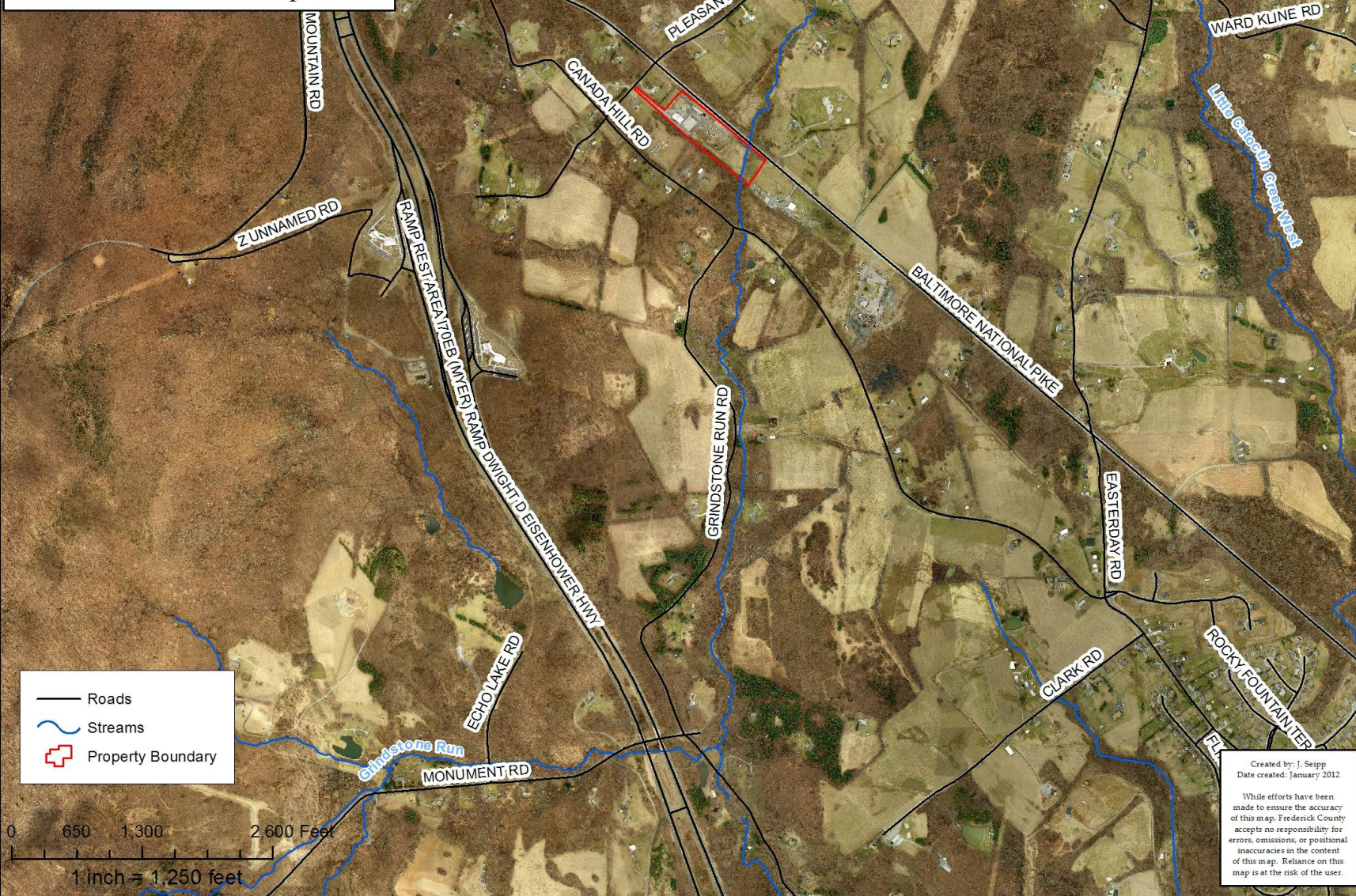
***ATTACHMENT A – General Location Map***







Frederick County  
Office of Highway Operations  
Myersville Satellite Facility  
General Site Map







***ATTACHMENT B – Site Map***



Frederick County  
Office of Highway Operations  
Myersville Satellite Facility  
Site Map



- Dumpsters
  - Storm Drains
  - Outfall
  - Pipes
  - Super Silt Fence
  - Drainage Patterns
  - Roads
  - Streams
  - Drainage Swales
  - Stormwater Ponds
  - Property Boundary
- Areas of Activity**
- Liquid Deicer - Caliber M1000
  - Storage Shed
  - Deer Compost Pile
  - Salt Barn
  - Shop/Office/Storage Shed
  - Stockpiles/Heavy Machinery
  - Tree/Mulch Stockpiles
  - Vehicle Storage

0 100 200 400 Feet  
1 inch = 180 feet



Created by: J. Sepp  
Date created: January 2012  
Revised: March 2012

While efforts have been made to ensure the accuracy of this map, Frederick County accepts no responsibility for errors, omissions, or positional inaccuracies in the content of this map. Reliance on this map is at the risk of the user.



***ATTACHMENT C – MD’s General Discharge Permit for SW  
Associated with Industrial Activities***

Note: It is helpful to keep a printed copy of the permit so that it is accessible to you for easy reference.





# MARYLAND DEPARTMENT OF THE ENVIRONMENT

1800 Washington Boulevard • Baltimore MD 21230  
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## GENERAL DISCHARGE PERMIT FOR STORM WATER ASSOCIATED WITH INDUSTRIAL ACTIVITIES

DISCHARGE PERMIT NO. 02-SW

NPDES PERMIT NO. MDR

Effective Date: December 1, 2002

Expiration Date: November 30, 2007

### Part I. Applicability.

A. Geographic Coverage. This permit covers all areas of the State of Maryland.

B. Eligible Discharges. This permit may cover all storm water discharges associated with industrial activity (except as described in Part I.C.1), as defined in 40 CFR 122.26, that discharge to surface waters of the State. Such discharges may be commingled with wastewater or water discharges not regulated by this permit. This permit also covers storm water discharges not included in 40 CFR 122.26 that the Department determines would, if not regulated by a permit, be likely to contribute to a violation of a water quality standard or be a significant contributor of pollutants to waters of the State, either surface or ground.

C. Ineligible Discharges. The following discharges are not covered under this general permit.

1. Storm water discharges from any construction activity, as defined in 40 CFR 122.26;
2. Storm water discharges that are regulated by effluent limitation guidelines. All or part of the storm water from the following industries are covered by effluent limitation guidelines: cement manufacturing (40 CFR 411), feedlots (40 CFR 412), fertilizer manufacturing (40 CFR 418), petroleum refining (40 CFR 419), phosphate manufacturing (40 CFR 422), steam electric generating (40 CFR 423), coal mining (40 CFR 434), mineral mining and processing (40 CFR 436), ore mining and dressing (40 CFR 440, and asphalt emulsion (40 CFR 443);
3. Storm water discharges associated with industrial activity from inactive mining or inactive oil and gas operations occurring on federal lands; and
4. Storm water discharges whose NPDES permit has been terminated (other than at the request of the permittee) or denied, or those for which the Department requires an individual permit or an alternative general permit.

D. No Permit Needed. Storm water associated with facilities where the operator has certified, in accordance with criteria established by the Department on form MDE/WMA/PER.067, that there is no potential for exposure of pollutants to storm water being discharged to State waters need not be permitted.

# MARYLAND DEPARTMENT OF THE ENVIRONMENT

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## E. Individual Permit or Another General Permit Required.

1. The Department may require any person authorized by this permit to apply for and obtain an individual State or State/NPDES discharge permit or to obtain coverage under another general permit. If an owner or operator fails to submit, in a timely manner, an application for an individual State or State/NPDES discharge permit or a Notice of Intent (NOI) for another general permit as required by the Department under this condition, the applicability of this permit to the owner or operator is automatically terminated at the end of the day specified by the Department for the application or NOI submittal.

2. Any person authorized by this permit may request to be excluded from coverage under this permit by applying for an individual State or State/NPDES discharge permit or requesting coverage under another general permit. The Department may grant this request by issuing an individual State or a State/NPDES discharge permit or by granting coverage under another general permit, if the reasons cited by the owner or operator are adequate to support the request.

3. When an individual State or State/NPDES discharge permit is issued to a person for discharges otherwise subject to this permit, the applicability of this permit to the permittee is automatically terminated on the effective date of the individual State or State/NPDES discharge permit.

4. If there is evidence indicating potential or realized impacts on water quality due to any activity covered by this permit, the owner or operator of such discharge may be required to obtain an individual State or a State/NPDES discharge permit or coverage under another general permit.

5. If a person otherwise covered under this permit is denied coverage under an individual State or a State/NPDES discharge permit, the denial automatically terminates, on the date of the denial, the person's coverage under this general permit, unless otherwise specified by the Department.

6. The Department may terminate coverage under this general permit for an existing permittee if the Department finds that:

- a. The NOI contained false or inaccurate information;
- b. Conditions or requirements of the discharge permit have been or are about to be violated;
- c. Substantial deviation from plans, specifications, or requirements has occurred;
- d. The Department has been refused entry to the premises for the purpose of inspecting to insure compliance with the conditions of the discharge permit;
- e. A change in conditions exists that requires temporary or permanent reduction or elimination of the permitted discharge;
- f. Any State or federal water quality stream standard or effluent standard has been or is likely to be violated; or

# MARYLAND DEPARTMENT OF THE ENVIRONMENT

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g. Any other good cause exists for terminating coverage under this permit.

F. Authorization. To be authorized to discharge under this general permit, a person is required to submit an NOI in accordance with the requirements of Part III of this permit, be notified of its acceptance by the Department, pay the required fee, and comply with the terms and conditions of this permit. Coverage under this permit is effective on the date that the NOI is acknowledged by the Department, provided the NOI fee has been paid to the Department in accordance with the terms stipulated in Part III below.

If the NOI fee is paid by a check which does not clear for any reason, the person will be given 30 calendar days to make proper payment including any interest and other charges that are due. If payment is not made within this time, coverage under this permit shall be considered void from the outset. The permittee should save the cancelled check, a copy of the completed NOI, and the registration letter from the Department. These documents shall be provided to the Department upon request.

## G. Transfer of Authorization.

1. The authorization under this permit is not transferable to any person except in accordance with this section.

2. Authorization to discharge under this permit may be transferred to another person if:

a. The current permittee notifies the Department (Industrial Discharge Permits Division with copy sent to Inspection and Compliance Program) in writing of the proposed transfer;

b. A written agreement, indicating the specific date of the proposed transfer of permit coverage and acknowledging the responsibilities of the current and new permittee for compliance with the terms and conditions of this permit, is submitted to the Department;

c. The new permittee either confirms in writing that the type of discharge, number of outfalls, and other information given on the original NOI remain correct or updates this information;

d. The new permittee confirms in writing that either they will follow the existing storm water pollution prevention plan or that they have developed a new plan; and

e. Neither the current permittee nor the new permittee receives notification from the Department, within 30 days of receipt of items I.G.2.a through d above, of intent to terminate coverage under this permit.

3. The Department may continue coverage for the new permittee under this permit or may require the new permittee to apply for and obtain an individual State or State/NPDES discharge permit or obtain coverage under another general permit.

4. A new owner of a facility is responsible for any fees unpaid by the former owner.

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H. Continuation of an Expired General Permit. Authorization to discharge under the terms of an expired general permit continues in full force and effect until a new general permit is issued, and for the next 60 days after issuance provided the permittee submits a new NOI and fee within that period, or until the general permit is revoked or withdrawn.

## Part II. Definitions.

A. "Best management practices (BMP)" means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of this State. BMP also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw materials storage.

B. "CFR" means Code of Federal Regulations.

C. "COMAR," means Code of Maryland Regulations.

D. "Department" means the Maryland Department of the Environment. Unless stated otherwise, all submissions to the Department shall be directed to the attention of the Wastewater Permits Program.

E. "Federal Clean Water Act" means the federal Water Pollution Control Act Amendments of 1972, its amendments and all rules and regulations adopted thereunder.

F. "General permit" means a discharge permit issued for a class of dischargers.

G. "Ground water" means underground water in a zone of saturation.

H. "Includes" or "including" means includes or including by way of illustration and not by way of limitation.

I. "NPDES permit" means a National Pollutant Discharge Elimination System permit issued under the federal Clean Water Act.

J. "NOI" means Notice of Intent to be covered by this permit (see Part III of this permit).

K. "Operator" means that person or those persons with responsibility for the management and performance of each facility.

L. "Permittee" means the person holding a permit issued by the Department.

M. "Person" means an individual, receiver, trustee, guardian, personal representative, fiduciary, or representative of any kind, and any partnership, firm, association, corporation, or other entity. Person includes the federal government, this State, any county, Municipal Corporation, or other political subdivision of this State or any of their units.

N. "Section 313 water priority chemical" means a chemical or chemical categories which: 1) are listed at 40 CFR 372.65 pursuant to Section 313 of Title III of the Superfund Amendments

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and Reauthorization Act (SARA) of 1986, also titled the Emergency Planning and Community Right-to-Know Act of 1986; 2) are present at or above threshold levels at a facility subject to SARA Title III, Section 313 reporting requirements; and 3) that meet at least one of the following criteria: (i) are listed in Appendix D of 40 CFR 122 on either Table II (organic priority pollutants), Table III (certain metals, cyanides, and phenols) or Table V (certain toxic pollutants and hazardous substances); (ii) are listed as a hazardous substance pursuant to Section 311(b)(2)(A) of the Clean Water Act at 40 CFR 116.4; or (iii) are pollutants for which EPA has published acute or chronic water quality criteria.

O. "Significant materials" includes, but is not limited to: raw materials; fuels; materials such as solvents, detergents, and plastic pellets; finished materials, such as metallic products; raw materials used in food processing or production; hazardous substances designated under Section 101(14) of CERCLA; any chemical the facility is required to report pursuant to Section 313 of Title III of SARA; fertilizers; pesticides; and waste products, such as ashes, slag and sludge that have the potential to be released with storm water discharges.

P. "Significant spills" includes, but is not limited to, releases of oil or hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (40 CFR 110.10 and 40 CFR 117.21) or Section 102 of CERCLA (40 CFR 302.4).

Q. "State discharge permit" means a discharge permit issued pursuant to the Environment Article, Title 9, Subtitle 3, Annotated Code of Maryland.

R. "Storm water associated with industrial activity" means storm water as defined in 40 CFR 122.26(b)(14).

S. "Surface waters," means all waters of this State that are not ground waters.

T. "Wastewater" means any:

1. Liquid waste substance derived from industrial, commercial, municipal, residential, agricultural, recreational, or other operations or establishments; and

2. Other liquid waste substance containing liquid, gaseous or solid matter and having characteristics that will pollute any waters of this State.

U. "Waters of this State" includes:

1. Both surface and underground waters within the boundaries of this State subject to its jurisdiction, including that part of the Atlantic Ocean within the boundaries of this State, the Chesapeake Bay and its tributaries, and all ponds, lakes, rivers, streams, tidal and nontidal wetlands, public ditches, tax ditches, and public drainage systems within this State, other than those designed and used to collect, convey, or dispose of sanitary sewage; and

2. The flood plain of free-flowing waters determined by the Department of the Environment on the basis of the 100-year flood frequency.

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## PART III. Notice of Intent Requirements.

A. Deadlines for Notification. At least 30 days prior to the commencement of any new storm water discharge covered under this general permit, a person shall request coverage by submitting an NOI in accordance with the requirements of this Part. Any person who is covered under 97-SW shall submit a new NOI and fee within 60 days of issuance of this permit to continue coverage. The Department may bring an enforcement action for failure to submit an NOI in a timely manner, or for any unauthorized discharges that occurred prior to obtaining coverage under this permit.

B. Notice of Intent. A person shall obtain the appropriate NOI form from the Department, and shall provide the following information:

1. County, name and address (location) of the facility;
2. Name and telephone number of the facility contact;
3. Written description of industrial activity taking place;
4. One four-digit SIC code that best represents the principal products or activities provided by the facility;
5. The latitude and longitude of the approximate center of the facility to the nearest 15 seconds or three decimal places;
6. The name of the receiving water(s), or if the discharge is to a municipal separate storm sewer, the name of the municipal operator of the storm sewer and the ultimate receiving water(s);
7. Permit number of any other NPDES permit issued for the facility;
8. Area of industrial activity at facility in acres;
9. Status of owner/operator (private, Federal, etc.);
10. Federal tax ID number;
11. Name and mailing address of applicant (company that owns and/or operates the permitted facility);
12. Name and telephone number of operator contact;
13. A summary of all existing quantitative data, if any, describing the concentration of pollutants in storm water discharges;
14. Workers compensation insurer and policy or binder number; or a Certificate of Compliance from the Workers' Compensation Commission;
15. Signature of applicant.

If a person operates multiple facilities, an NOI is required for each noncontiguous site.

## C. Discharge Permit Fee

Persons who intend to obtain coverage under this general permit shall submit to the Department a fee of \$550 with the NOI. Local and state governments are not required to pay a fee.

As an alternative to a single fee, a person may submit five annual \$120 payments beginning with the submission of the NOI application and every July 1 thereafter.

The discharge fee for new facilities that have commenced operating after permit issuance shall be prorated on a monthly basis.



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## D. Required Signatures.

1. Certification. Any person signing an NOI shall make the following certification as part of the NOI.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

2. Signatories. The NOI shall be signed as follows:

a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:

(i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or

(ii) The manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

c. For a municipal, State, federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a federal agency includes:

(i) The chief executive officer of the agency; or

(ii) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).

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## 3. Report Submission.

a. All reports required by permits, and other information requested by the Department shall be signed by a person described in Part III, Section E.2 or by a duly authorized representative of that person. A person is a duly authorized representative only if:

(i) The authorization is made in writing by a person described in Part III, Section E.2;

(ii) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility or an individual or position having overall responsibility for environmental matters for the company; and

(iii) The written authorization is submitted to the Department.

b. If an authorization under this subsection is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part III, Section E.3(a) must be submitted to the Department prior to or together with any reports, information or applications to be signed by the new authorized representative.

E. Where to Submit. A person shall submit a signed copy of the NOI and the required fee, made payable to the Maryland Department of the Environment, to the following address:

Maryland Department of the Environment  
P.O. Box 2057  
Baltimore MD 21203-2057

F. Failure to Notify. Persons who discharge storm water associated with industrial activity, who fail to notify the Department of their intent to be covered under this permit, and who discharge to waters of this State without an individual State or State/NPDES discharge permit, are in violation of the federal Clean Water Act and the Environment Article, Annotated Code of Maryland, and may be subject to penalties.

## G. Additional Notification.

Facilities which discharge storm water associated with industrial activity to the municipal separate storm sewer system of Anne Arundel County, Baltimore (City), Baltimore County, Carroll County, Charles County, Frederick County, Harford County, Howard County, Montgomery County, Prince George's County, or the State Highways Administration shall, in addition to filing copies of the NOI in accordance with condition III.B., submit, concurrently, signed copies of the NOI to the operator of the municipal separate storm sewer to which they discharge (see NOI form for addresses). Facilities discharging to the separate storm sewer system of certain smaller municipalities and other administrative units will also be required to notify the operator. The Department will provide further information, if applicable, after receipt of the NOI.

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H. Permit Expiration and Renewal. Within 60 days after the reissuance of this general permit with new effective and expiration dates, the permittee is required to submit to the Department either:

1. A notice that the discharge or industrial activity (including the exposure of residual pollutants from concluded industrial activity) has ceased; or
2. A new NOI and any fee in accordance with the requirements of the reissued general permit in order to be covered under the reissued general permit.

I. Additional Reporting Requirements. In the event that the Department identifies certain pollutants causing impairment of the receiving waters, the permittee may be required to amend the NOI by submission of storm water sampling data for the subject pollutants. The Department will provide further information, if applicable, after receipt of the NOI.

## Part IV. Special Conditions.

### A. Releases In Excess Of Reportable Quantities

1. The discharge of hazardous substances or oil in the storm water discharge(s) from a facility shall be prevented or minimized in accordance with the applicable storm water pollution prevention plan for the facility. This permit does not relieve the permittee of the reporting requirements of 40 CFR part 117 and 40 CFR part 302. Except as provided in Part IV, Section A.2 (multiple anticipated discharges) of this permit, where a release containing a hazardous substance in an amount equal to or in excess of a reporting quantity established under either 40 CFR 117 or 40 CFR 302, occurs during a 24-hour period:

a. The discharger is required to notify the Department of any oil spill or discharge of oil by calling its Emergency Response Division at (410) 974-3551 and notify the National Response Center (NRC) at (800) 424-8802 or, in the Washington, DC metropolitan area, at (202) 426-2675 in accordance with the requirements of COMAR 26.10.01.03, 40 CFR 117 and 40 CFR 302 respectively as soon as he or she has knowledge of the discharge;

b. The permittee shall submit to the Department within 10 working days of knowledge of the release a written description of: the release (including the type and estimate of the amount of material released), the date that such release occurred, the circumstances leading to the release, and steps to be taken in accordance with Part IV, Section A.1.c (below) of this permit, and any other information as required by COMAR 26.10.01.03; and

c. The storm water pollution prevention plan required under Part IV, Section B (storm water pollution prevention plans) of this permit must be modified within 14 calendar days of knowledge of the release to: provide a description of the release, the circumstances leading to the release, and the date of the release. In addition, the plan must be reviewed to identify measures to prevent the reoccurrence of such releases and to respond to such releases, and the plan must be modified where appropriate.

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2. Facilities which have more than one anticipated discharge per year containing the same hazardous substance in an amount equal to or in excess of a reportable quantity established under either 40 CFR 117 or 40 CFR 302, which occurs during a 24-hour period, where the discharge is caused by events occurring within the scope of the relevant operating system shall comply with Part IV, sections A.1.a, b, and c above, but must submit notifications only for the first such release that occurs during a calendar year (or for the first year of this permit, after submittal of an NOI).

3. This permit does not authorize the discharge of hazardous substances or oil resulting from an on-site spill.

## B. Storm Water Pollution Prevention Plans - General

The permittee shall have and implement a storm water pollution prevention plan for each facility covered by this permit. The storm water pollution prevention plan shall be prepared in accordance with sound engineering practices. The plan shall identify potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges associated with industrial activity from the facility.

In addition, the plan shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit.

1. In developing this plan, the permittee may use as a reference "Storm Water Management for Industrial Activities: Developing Pollution Prevention Plans and Best Management Practices" (EPA Document #EPA832-R-92-006) or the "Summary Guidance" (EPA Document #EPA833-R-92-002). These documents can be obtained from the EPA Clearinghouse (phone: 1-800-490-9198) or the National Technical Information Service, 5285 Port Royal Road, Springfield, Virginia 22161 (phone: 703-605-6000).

2. The plan shall be signed in accordance with Part III, Section D.2 of this permit, and be retained on site in accordance with Part VI, Section A.2 of this permit. In the case of new facilities, the plan shall be completed and implemented prior to submitting an NOI to be covered under this permit. The permittee shall make plans available upon request to the Department, and in the case of a storm water discharge associated with industrial activity which discharges to a municipal separate storm sewer system with an NPDES permit, to the municipal operator of the system (those systems are listed in Part III. Section G, addresses are on NOI).

3. If the plan is reviewed by the Department, the Department will notify the permittee, at any time, that the plan does not meet one or more of the minimum requirements of this Part. After such notification from the Department, the permittee shall make changes to the plan to meet the objections of the Department and shall submit to the Department a written certification that the requested changes have been made and implemented. Unless otherwise provided by the Department, the permittee shall have 90 days after such notification to make the necessary changes.

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4. The permittee shall amend the plan whenever there is a change in design, construction, operation, or maintenance which creates a potential for the discharge of pollutants to the waters of the State or if the storm water pollution prevention plan proves to be ineffective in achieving the general objectives of controlling pollutants in storm water discharges associated with industrial activity. Amendments to the plan may be reviewed by the Department as described above.

## C. Storm Water Pollution Prevention Plan - Contents

The plan shall include, at a minimum, the following items:

1. Each plan shall provide a description of potential sources which may be reasonably expected to add pollutants to storm water discharges. Each plan shall identify all activities and materials which may potentially be significant pollutant sources. Each plan shall include:

a. A site map indicating an outline of the drainage area of each storm water outfall; each existing structural control measure to reduce pollutants in storm water runoff; and surface water bodies, including drainage ditches and wetlands.

b. A topographic map (or other map, if a topographic map is unavailable), extending one-quarter of a mile beyond the property boundaries of the facility. The requirements of this condition may be included in the site map required under Part IV, Section C.1.a. above, if appropriate.

c. A narrative description of significant materials that have been treated, stored, or disposed in a manner which allowed exposure to storm water at any time from three years prior to obtaining coverage under this permit until the time the present method of on-site storage or disposal was initiated; materials management practices employed to minimize contact of these materials with storm water runoff; materials loading and access areas; the location and a description of existing structural and non-structural control measures to reduce pollutants in storm water runoff; and a description of any treatment the storm water receives.

d. For each area of the facility that generates storm water discharges associated with industrial activity with a reasonable potential for containing pollutants, a prediction of the direction of flow, and an estimate of the types of pollutants which are likely to be present in storm water discharges associated with industrial activity; and

e. A summary of all existing sampling data describing pollutants in storm water discharges.

2. Each facility covered by this permit shall develop a description of storm water management controls appropriate for the facility, and implement such controls. The appropriateness and priorities of controls in a plan shall reflect identified potential sources of pollutants at the facility. The description of storm water management controls shall address the following minimum components, including a schedule for implementing such controls:

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- a. A preventive maintenance program that involves timely inspection and maintenance of storm water management devices (cleaning oil/water separators, catch basins) as well as inspecting and testing plant equipment and systems to uncover conditions that could cause breakdowns or failures resulting in discharges of pollutants to surface waters.
  - b. Good housekeeping that requires the maintenance of a clean, orderly facility.
  - c. Spill prevention and response procedures shall be identified in the plan and made known to the appropriate personnel. The necessary equipment to implement a cleanup shall be available to the appropriate personnel.
  - d. The plan shall prevent sediment and erosion by identifying areas that, due to topography, activities, or other factors, have a high potential for significant soil erosion, and identifying measures to limit erosion.
  - e. The plan shall contain a narrative consideration of the appropriateness of traditional storm water management practices (practices other than those which control the generation or source(s) of pollutants) used to divert, infiltrate, reuse, or otherwise manage storm water runoff in a manner that reduces pollutants in storm water discharges from the site. The plan shall provide that measures determined to be reasonable and appropriate shall be implemented and maintained. The potential of various sources at the facility to contribute pollutants to storm water discharges associated with industrial activity (see Part IV, Section C.1. - description of potential pollutant sources) shall be considered when determining reasonable and appropriate measures. Appropriate measures may include: vegetative swales and practices, reuse of collected storm water (such as for a process or as an irrigation source), inlet controls (such as oil/water separators), snow management activities, infiltration devices, and wet detention/retention devices.
  - f. Qualified plant personnel shall be identified to visually inspect designated equipment and plant areas. A site inspection shall be conducted annually by such personnel to verify that the description of potential pollutant sources required under Part IV, Section C.1. is accurate, the drainage map has been updated to reflect current conditions, and the controls to reduce pollutants identified in the storm water pollution prevention plan are being implemented and are adequate. In particular, material-handling areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. A tracking or follow-up procedure shall be used to ensure that each inspection results in an appropriate response.
  - g. Spills or other discharge incidents, and information describing the quality and quantity of storm water discharges shall be in the facility records. Maintenance activities shall be documented and recorded with inspection and discharge records. All records shall be maintained at the facility, for a minimum of three years. This period shall be automatically extended during the course of litigation, or when requested by the Department.
3. Storm water management programs may include requirements for Spill Prevention Control and Countermeasure (SPCC) plans under Section 311 of the Clean Water Act or Best Management Practices (BMPs) programs otherwise required by any NPDES permit and may incorporate any part of such plans into the storm water pollution prevention plan by reference.

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4. Special Requirements for Storm Water Discharges Associated with Industrial Activity to Municipal Separate Storm Sewer Systems: Facilities covered by this permit shall comply with applicable requirements in municipal storm water management programs developed under State/NPDES permits issued for the discharge of the municipal separate storm sewer system that receives the facility's discharge, provided the municipal operator has notified the discharger of such conditions. These facilities shall make storm water pollution prevention plans available to the municipal operator of the system upon request.
5. Storage piles of salt used for deicing or other commercial or industrial purposes shall be enclosed or covered to prevent exposure to precipitation.
6. The description of the storm water Pollution Prevention Committee shall identify specific individuals within the plant organization who are responsible for developing the storm water pollution prevention plan and assisting the plant manager in its implementation, maintenance, and revision. The activities and responsibilities of the committee should address all aspects of the facility's storm water pollution prevention plan.
7. Employee training programs shall inform personnel at all levels of responsibility of the components and goals of the storm water pollution prevention plan. Training should address topics, such as spill response, good housekeeping and material management practices. A pollution prevention plan shall identify periodic dates for such training.

## D. Storm Water Pollution Prevention Plan - Additional Requirements For Facilities Subject To SARA Title III, Section 313 Requirements

Storm water pollution prevention plans for facilities subject to reporting requirements under SARA Title III, Section 313 (42 U.S.C.11023) are required to include, in addition to the information listed in Part IV, Section C., a discussion of the facility's conformance with the following (appropriate) guidelines:

1. In areas where Section 313 water priority chemicals are stored, processed or otherwise handled, appropriate containment, drainage control and/or diversionary structures shall be provided. At a minimum, one of the following preventive systems or its equivalent shall be used:
  - a. Curbing, culverts, gutters, sewers or other forms of drainage control to prevent or minimize the potential for storm water runoff to come into contact with significant sources of pollutants; or
  - b. Roofs, covers, liners, or other forms of appropriate protection to prevent storage piles from leaching or exposure to storm water and wind.
2. The storm water pollution prevention plan shall include a complete discussion of measures taken to conform to the following applicable guidelines, other effective storm water pollution prevention procedures, and applicable State rules, regulations and guidelines.



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a. No tank or container shall be used for the storage of a Section 313 water priority chemical unless its material and construction are compatible with the material stored and conditions of storage, such as pressure and temperature, etc. Liquid storage areas for Section 313 water priority chemicals shall be operated to prevent discharges of Section 313 chemicals by means such as secondary containment for at least the entire contents of the largest single tank plus sufficient freeboard to allow for precipitation, a strong spill contingency and integrity testing plan, and/or other equivalent measures.

b. Truck and rail car loading and unloading areas for liquid Section 313 water priority chemicals shall be operated to prevent discharges of Section 313 water priority chemicals by means such as the placement and maintenance of drip pans (including the proper disposal of materials collected in the drip pans) where spillage may occur (such as hose connections, hose reels and filler nozzles) for use when making and breaking hose connections; a strong spill contingency and integrity testing plan; and/or other equivalent measures.

c. In plant areas where Section 313 water priority chemicals are transferred, processed or otherwise handled, piping, processing equipment and materials handling equipment shall be designed and operated so as to prevent discharges of Section 313 chemicals, and be composed of materials that are compatible with the substances handled. Additional protection, such as covers or guards to prevent wind blowing, spraying or releases from pressure relief vents from causing a discharge of Section 313 water priority chemicals to the drainage system shall be provided, as appropriate, to control the releases.

d. Discharges from secondary containment areas.

(1) Drainage from secondary containment shall be restrained by valves or other positive means to prevent a spill or other excessive leakage of Section 313 water priority chemicals into the drainage system. After a visual inspection of the storm water and determination that no product is present, pumps or ejectors may empty containment areas; however, these shall be manually activated.

(2) Flapper-type drain valves shall not be used to drain containment areas. Valves used for the drainage of containment areas shall be of manual, open-and-close design.

(3) Records of the frequency and estimated volume (in gallons) of discharges from containment areas shall be kept at the facility for a minimum of three years.

(4) In lieu of facility drainage engineered as described above, the final discharge of all in-facility storm sewers shall be equipped with a diversion system that could, in the event of an uncontrolled spill of Section 313 water priority chemicals, return the spilled material to the facility.

(5) Areas of the facility [those not addressed in paragraphs (a), (b), (c) or (d)], from which runoff which may contain Section 313 water priority chemicals or spills of Section 313 water priority chemicals and which could cause a discharge shall incorporate the necessary drainage or other control features to prevent discharge of spilled or improperly disposed material and ensure the mitigation of pollutants in runoff or leachate.

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3. Facilities shall have the necessary security systems to prevent accidental or intentional entry that could cause a discharge or disrupt treatment. Security systems shall be described in the plan and address fencing, lighting, vehicular traffic control, and securing of equipment and buildings.

4. The storm water pollution prevention plan shall assess the potential of various sources at the plant to contribute pollutants to storm water discharges associated with industrial activity. The plan shall include an inventory of the types of materials handled. Facilities shall include in the plan a description of releases to land or water of SARA Title III water priority chemicals that have occurred at any time after July 1, 1989. Each of the following shall be evaluated for the reasonable potential for contributing pollutants to runoff: loading and unloading operations; outdoor storage activities; outdoor manufacturing or processing activities; significant dust or particulate generating processes; and on-site waste disposal practices. Factors to consider include the toxicity of chemicals; quantity of chemicals used, produced, or discharged; the likelihood of contact with storm water; and history of significant leaks or spills of toxic or hazardous pollutants.

### V. Violation of Permit Conditions.

A. Compliance With This General Permit and Water Pollution Abatement Statutes. The permittee shall comply at all times with the terms and conditions of this permit, the provisions of the Title 7, Subtitle 2, Title 9, Subtitles 2 and 3 of the Environment Article, Annotated Code of Maryland, and the Federal Act.

B. Civil and Criminal Liability. In issuing or reissuing this permit, the Department does not waive or surrender any right to proceed in an administrative, civil, or criminal action for any violations of State law or regulations occurring before the issuance or reissuance of this permit. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any civil or criminal responsibilities, liabilities, or penalties for noncompliance with Title 9 of the Environment Article, Annotated Code of Maryland or any federal, local or other state law or regulation.

C. Civil Penalties for Violations of Permit Conditions. In addition to civil penalties for violations of State water pollution control laws set forth in Section 9-342 of the Environment Article, Annotated Code of Maryland, the Federal Act provides that any person who violates Section 301, 302, 306, 307, 308, 318, or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under Section 402 of the Act or in a permit issued under Section 404 of the Act, is subject to a civil penalty not to exceed \$27,500 per day for each violation.

D. Criminal Penalties for Violations of Permit Conditions. In addition to criminal penalties for violations of State water pollution control laws set forth in Section 9-343 of the Environment Article, Annotated Code of Maryland, the Federal Act provides that:

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1. Any person who negligently violates Section 301, 302, 306, 307, 308, 318, or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under Section 402 of the Act, or in a permit issued under Section 404 of the Act, is subject to a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than one (1) year, or by both.
2. Any person who knowingly violates Section 301, 302, 306, 307, 308, 318, or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under Section 402 of the Act, or in a permit issued under Section 404 of the Act, is subject to a fine of not less than \$5,000 nor more than \$50,000 per day of violation, or by imprisonment for not more than three (3) years, or by both.
3. Any person who knowingly violates Section 301, 302, 306, 307, 308, 318, or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under Section 402 of the Act, or in a permit issued under Section 404 of the Act, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, is subject to a fine of not more than \$250,000 or imprisonment of not more than fifteen (15) years, or both. A person that is a corporation, shall, upon conviction, be subject to a penalty of not more than \$1,000,000.

E. Penalties for Falsification and Tampering. The Environment Article, §9-343, Annotated Code of Maryland provides that any person who knowingly makes any false material statement, representation, or certification in any application, record, report, plan, or other document filed or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance, or who knowingly falsifies, tampers with or renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both. The federal Clean Water Act provides that any person who knowingly falsifies, tampers with, or renders inaccurate any monitoring device or method required to be maintained under the Act, or who knowingly makes any false statement, representation, or certification in any records or other documents submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than two years, or by both.

## Part VI. General Conditions.

A. Right of Entry. The permittee shall permit the Secretary of the Department, the Regional Administrator for the EPA, or their authorized representatives, upon the presentation of credentials:

1. To enter upon the permittee's premises where an effluent source is located or where any records are required to be kept under the terms and conditions of this permit;
2. To access and copy, at reasonable times, any records required to be kept under the terms and conditions of this permit;

# MARYLAND DEPARTMENT OF THE ENVIRONMENT

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3. To inspect, at reasonable times, any monitoring equipment or monitoring method required in this permit;
4. To inspect, at reasonable times, any collection, treatment, pollution management, or discharge facilities required under this permit;
5. To sample, at reasonable times, any discharge of pollutants;
6. To install ground water monitoring wells; and
7. To take photographs.

B. **Property Rights/Compliance with Other Requirements.** The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor does it authorize any infringement of federal, State or local laws or regulations.

C. **Duty to Provide Information.** The permittee shall furnish to the Department, within the time frame stipulated by the Department, any information that the Department may request to determine compliance with this permit. The permittee shall also furnish to the Department, upon request, copies of records required to be kept by this permit.

D. **Other Information.** If the permittee becomes aware that incorrect information has been included in the NOI or any other report submitted to the Department, or relevant facts have been omitted from the NOI or any other report to the Department, the permittee shall submit the correct information or facts to the Department with 30 calendar days of becoming aware.

E. **Availability of Reports.** Except for data determined to be confidential under the Maryland Public Information Act, and Section 308 of the federal Clean Water Act, all submitted data shall be available for public inspection at the Department.

F. **Toxic Pollutants.** The permittee shall comply with effluent standards or prohibitions for toxic pollutants established under the federal Clean Water Act, or under Section 9-314 and Sections 9-322 through 9-328 of the Environment Article, Annotated Code of Maryland. Compliance shall be achieved within the time provided in the regulations that establish these standards or prohibitions, even if this permit has not yet been modified to incorporate the requirement.

G. **Oil and Hazardous Substances Prohibited.** Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibility, liability, or penalties to which the permittee may be subject under the federal Clean Water Act or under the Annotated Code of Maryland.

H. **Water Construction and Obstruction.** This permit does not authorize the construction or placing of physical structures, facilities, or debris or the undertaking of related activities in any waters of the State.

I. Severability. The provisions of this permit are severable. If any provisions of this permit shall be held invalid for any reason, the remaining provisions shall remain in full force and effect. If the application of any provision of this permit to any circumstances is held invalid, its application to other circumstances shall not be affected.

#### Part VII. Authority to Issue General NPDES Permits.

On September 5, 1974, the Administrator of the EPA approved the proposal submitted by the State of Maryland for the operation of a permit program for discharges into navigable waters under Section 402 of the federal Clean Water Act, 33 U.S.C. Section 1342.

On September 30, 1990, the Administrator of the EPA approved the proposal submitted by the State of Maryland for the operation of a general permit program.

Under the approvals described above, this general discharge permit is both a State of Maryland general discharge permit and an NPDES general discharge permit.

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Robert M. Summers, Director  
Water Management Administration

***ATTACHMENT D – Routine Facility Inspection Reports &  
Record Keeping Section***



Copies of all forms and record keeping documents must be submitted to Jessica Seipp with WMS by December 31<sup>st</sup> of each year. She can be reached at 301.600.1350 or [jseipp@frederickcountymd.gov](mailto:jseipp@frederickcountymd.gov).

Stormwater Industrial Facility Routine/Quarterly Inspection Report

**SECTION A: GENERAL INFORMATION**

**Facility Name:** Frederick County Highway Operations - Myersville Facility

**NPDES Permit Number:** MDE Permit 02SW2285

**Facility Address:** 10917 Pleasant Walk Rd, Myersville, MD 21773

**Date of Inspection:**

**Start/End Time of Inspection:**

**Inspector's Name(s) and Contact Information:**

**Facility Representative(s) in Attendance and Contact Information:**

**Weather Information:** Weather at time of inspection? [CIRCLE ALL THAT APPLY]

Clear

Cloudy

Rain

Sleet

Fog

Snow

High Winds

Other:

**Stormwater Industrial Facility Routine/Quarterly Inspection Report**

**SECTION B: INSPECTION OF BMPs AND AREAS OF INDUSTRIAL ACTIVITIES**

<b>STORMWATER POND – CELL #1</b>			<b>Additional Comments/Notes</b>
(1) Does the pond appear to be functioning properly?	YES	NO	
(2) Is there an excessive amount of litter in the pond?	YES	NO	
(3) Does there appear to be a significant amount of sediment accumulated in the pond?	YES	NO	
(4) If the pond has water, is there an excessive amount of algae present?	YES	NO	
(5) Does the inlet(s) have dry weather flow <sup>1</sup> ?	YES	NO	
(6) If the pond has water, is there an odor?	YES	NO	
(7) If the pond has water, is the water discolored?	YES	NO	
(8) Is there evidence of erosion present on the banks of the pond?	YES	NO	
(9) Is there any other condition that appears to be abnormal?	YES	NO	
(a) If YES is circled for any of the questions (2-9) above, provide a description of the condition, corrective action necessary and photo (if possible).			

<sup>1</sup>Dry weather flow = presence of flowing water when it has not rained within the last 48 hours.

<b>STORMWATER POND – CELL #2</b>			<b>Additional Comments/Notes</b>
(1) Does the pond appear to be functioning properly?	YES	NO	
(2) Is there an excessive amount of litter in the pond?	YES	NO	
(3) Does there appear to be a significant amount of sediment accumulated in the pond?	YES	NO	
(4) If the pond has water, is there an excessive amount of algae present?	YES	NO	
(5) Does the inlet(s) have dry weather flow <sup>1</sup> ?	YES	NO	
(6) If the pond has water, is there an odor?	YES	NO	
(7) If the pond has water, is the water discolored?	YES	NO	
(8) Is there evidence of erosion present on the banks of the pond?	YES	NO	

### Stormwater Industrial Facility Routine/Quarterly Inspection Report

(9) Is there any other condition that appears to be abnormal?	YES	NO	
(a) If YES is circled for any of the questions (2-9) above, provide a description of the condition, corrective action necessary and photo (if possible).			
<sup>1</sup> Dry weather flow = presence of flowing water when it has not rained within the last 48 hours.			

STORMWATER POND – CELL #3			Additional Comments/Notes
(1) Does the pond appear to be functioning properly?	YES	NO	
(2) Is there an excessive amount of litter in the pond?	YES	NO	
(3) Does there appear to be a significant amount of sediment accumulated in the pond?	YES	NO	
(4) If the pond has water, is there an excessive amount of algae present?	YES	NO	
(5) Does the inlet(s) have dry weather flow <sup>1</sup> ?	YES	NO	
(6) If the pond has water, is there an odor?	YES	NO	
(7) If the pond has water, is the water discolored?	YES	NO	
(8) Is there evidence of erosion present on the banks of the pond?	YES	NO	
(9) Is there any other condition that appears to be abnormal?	YES	NO	
(a) If YES is circled for any of the questions (2-9) above, provide a description of the condition, corrective action necessary and photo (if possible).			
<sup>1</sup> Dry weather flow = presence of flowing water when it has not rained within the last 48 hours.			

DRAINAGE SWALES			Additional Comments/Notes
(1) Do the drainage swales appear to be functioning properly?	YES	NO	
(2) Is there an excessive amount of litter in the drainage swales?	YES	NO	
(3) Does there appear to be a significant amount of sediment accumulated in	YES	NO	

### Stormwater Industrial Facility Routine/Quarterly Inspection Report

the drainage swales?		
(4) Is there dry weather flow <sup>1</sup> in the drainage swales?	YES	NO
(5) If the drainage swales have water, is there an odor?	YES	NO
(6) If the drainage swales have water, is the water discolored?	YES	NO
(7) Is there evidence of erosion along the drainage swales?	YES	NO
(8) Is there any other condition that appears to be abnormal?	YES	NO
(a) If YES is circled for any of the questions (2-9) above, provide a description of the condition, corrective action necessary and photo (if possible).		

<sup>1</sup>Dry weather flow = presence of flowing water when it has not rained within the last 48 hours.

SUPER SILT FENCE		Additional Comments/Notes
(1) Is silt fence in place?	YES NO	
(2) Is the silt fence properly installed?	YES NO	
(3) Does the silt fence require any maintenance?	YES NO	
(a) If YES, provide a description of the condition and any required corrective actions below.		

OUTDOOR DUMPSTERS		Additional Comments/Notes
(1) Do dumpsters appear to be leaking (i.e. is there evidence of staining on the ground)?	YES NO	
(2) Are dumpster lids closed?	YES NO	
(3) Are dumpster lids in good condition?	YES NO	
(4) Are dumpsters in good condition?	YES NO	
(5) Has all waste been disposed of properly?	YES NO	

## Stormwater Industrial Facility Routine/Quarterly Inspection Report

POLE BARN/VEHICLE STORAGE BUILDING			Additional Comments/Notes
(1) Is there evidence of spills/leaks (i.e. staining or absorbent materials on the ground)?	YES	NO	
	(If <b>NO</b> , skip to #2)		
(a) Was the source of the spill identified?	YES	NO	
(b) Was the source of the spill eliminated	YES	NO	
(c) Was a spill form completed?	YES	NO	
(d) Was the spill reported?	YES	NO	
(e) Was the spill cleaned up properly?	YES	NO	
- If <b>NO</b> is circled for any of the questions (a-e) above, provide an explanation of why			
(2) Are any materials, drums, or containers exposed to precipitation?	YES	NO	
(a) If <b>YES</b> , are they sealed and labeled properly?	YES	NO	
(3) Are spill kits available for use?	YES	NO	
(a) If <b>YES</b> , do the spill kits need to be restocked?	YES	NO	
(4) Are all drums stored in secondary containment?	YES	NO	
(5) Are all containers properly sealed and labeled?	YES	NO	
(6) Are materials stored in an orderly fashion?	YES	NO	
SALT BARN			Additional Comments/Notes
(1) Is there evidence of spills/leaks (i.e. staining or absorbent materials on the ground)?	YES	NO	
	(If <b>NO</b> , skip to #2)		
(a) Was the source of the spill identified?	YES	NO	
(b) Was the source of the spill eliminated	YES	NO	
(c) Was a spill form completed?	YES	NO	
(d) Was the spill reported?	YES	NO	
(e) Was the spill cleaned up properly?	YES	NO	
- If <b>NO</b> is circled for any of the questions (a-e) above, provide an explanation of why			



### Stormwater Industrial Facility Routine/Quarterly Inspection Report

(2) Are Caliber M1000 storage tanks protected and in good condition?	YES	NO	
(1) Is all salt and Anti-Skid aggregate contained within the salt barn?	YES	NO	
(2) Has the lot been swept since the last inspection?	YES	NO	
- If YES, please provide date:			

STORAGE SHED			Additional Comments/Notes
(1) Is there evidence of spills/leaks (i.e. staining or absorbent materials on the ground)?	YES	NO	
(If NO, skip to #2)			
(a) Was the source of the spill identified?	YES	NO	
(b) Was the source of the spill eliminated?	YES	NO	
(c) Was a spill form completed?	YES	NO	
(d) Was the spill reported?	YES	NO	
(e) Was the spill cleaned up properly?	YES	NO	
- If NO is circled for any of the questions (a-e) above, provide an explanation of why			
(2) Are any materials, drums, or containers exposed to precipitation?	YES	NO	
(a) If YES, are they sealed and labeled properly?	YES	NO	
(3) Are spill kits available for use?	YES	NO	
(a) If YES, do the spill kits need to be restocked?	YES	NO	
(4) Are all drums stored in secondary containment?	YES	NO	
(5) Are all containers properly sealed and labeled?	YES	NO	
(6) Are materials stored in an orderly fashion?	YES	NO	

### Stormwater Industrial Facility Routine/Quarterly Inspection Report

STEEL STORAGE SHED (between salt bard and shop)		Additional Comments/Notes
(1) Is there evidence of spills/leaks (i.e. staining or absorbent materials on the ground)?	YES NO (If <b>NO</b> , skip to #2)	
(a) Was the source of the spill identified?	YES NO	
(b) Was the source of the spill eliminated	YES NO	
(c) Was a spill form completed?	YES NO	
(d) Was the spill reported?	YES NO	
(e) Was the spill cleaned up properly?	YES NO	
- If <b>NO</b> is circled for any of the questions (a-e) above, provide an explanation of why		
(2) Are any materials, drums, or containers exposed to precipitation?	YES NO	
(a) If <b>YES</b> , are they sealed and labeled properly?	YES NO	
(3) Are spill kits available for use?	YES NO	
(a) If <b>YES</b> , do the spill kits need to be restocked?	YES NO	
(4) Are materials stored in secondary containment?	YES NO	
(5) Are all containers properly sealed and labeled?	YES NO	
(6) Are materials stored in an orderly fashion?	YES NO	

STOCKPILES/HEAVY MACHINERY STORAGE AREA		Additional Comments/Notes
(1) Is there evidence of spills/leaks from heavy machinery (i.e. staining or absorbent materials on the ground)?	YES NO (If <b>NO</b> , skip to #2)	
(a) Was the source of the spill identified?	YES NO	
(b) Was the source of the spill eliminated	YES NO	
(c) Was a spill form completed?	YES NO	
(d) Was the spill reported?	YES NO	
(e) Was the spill cleaned up properly?	YES NO	
- If <b>NO</b> is circled for any of the questions (a-e) above, provide an explanation of why		

### Stormwater Industrial Facility Routine/Quarterly Inspection Report

(2) Are all stockpiles contained within the concrete block area?	YES	NO
(3) Are spill kits available for use?	YES	NO
(a) If YES, do the spill kits need to be restocked?	YES	NO
(4) Are all drums stored in secondary containment?	YES	NO
(5) Are all containers properly sealed and labeled?	YES	NO
(6) Are materials stored in an orderly fashion?	YES	NO

STUMP/MULCH STOCKPILES		Additional Comments/Notes
(1) Is all material stockpiled so that stormwater is carried towards the silt fence?	YES NO	
(2) Are materials stored in an orderly fashion?	YES NO	

### SECTION C: GENERAL INSPECTION FINDINGS

(1) As part of this comprehensive site inspection, did you inspect all potential pollutant sources, including areas where industrial activity may be exposed to stormwater?	YES NO	Additional Comments/Notes
(1) If NO, describe why not		
(2) Did this inspection identify any stormwater or non-stormwater outfalls not previously identified in the SWPPP?	YES NO	Additional Comments/Notes
(a) If YES, for each location, describe the sources of those stormwater and non-stormwater discharges and any associated control measures in place		

### Stormwater Industrial Facility Routine/Quarterly Inspection Report

(3) Did this inspection identify any sources of stormwater or non-stormwater discharges not previously identified in the SWPPP?		YES      NO	Additional Comments/Notes
(a) If YES, describe the sources of stormwater or non-stormwater pollutants expected to be present in these discharges, and any control measures in place			
(4) Did you review stormwater monitoring data as part of this inspection to identify potential pollutant hotspots?		YES      NO      N/A	Additional Comments/Notes
(a) If YES, summarize the findings of that review and describe any additional inspection activities resulting from this review			
(5) Describe any evidence of pollutants entering the drainage system or discharging to surface waters, and the condition of and around outfalls, including flow dissipation measures to prevent scouring			Additional Comments/Notes
(6) Have you taken or do you plan to take any corrective action, as specified in the permit, since your last annual report submission (or since you received authorization to discharge under this permit if this is your first annual report), including any correcting actions identified as a result of this annual comprehensive site inspection?		YES      NO	Additional Comments/Notes
(a) If YES, please provide a description			

## Stormwater Industrial Routine Facility Inspection Report

General Information			
Facility Name	Myersville Yard		
NPDES Tracking No.	025W2285		
Date of Inspection	5/22/12	Start/End Time	10.00 AM / 11.00 AM
Inspector's Name(s)	Gale Reeder		
Inspector's Title(s)	Foreman		
Inspector's Contact Information	301-293-1124		
Inspector's Qualifications	Site Supervisor		
Weather Information			
Weather at time of this inspection?			
<input type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Sleet <input checked="" type="checkbox"/> Fog <input type="checkbox"/> Snow <input type="checkbox"/> High Winds <input type="checkbox"/> Other:    Temperature: 68			
Have any previously unidentified discharges of pollutants occurred since the last inspection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
If yes, describe:			
Are there any discharges occurring at the time of inspection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
If yes, describe:			

### Control Measures

- Number the structural stormwater control measures identified in your SWPPP on your site map and list them below (add as many control measures as are implemented on-site). Carry a copy of the numbered site map with you during your inspections. This list will ensure that you are inspecting all required control measures at your facility.
- Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log.

#	Structural Control Measure	Control Measure Is Operating Effectively?	If No, In Need of Maintenance, Repair, or Replacement?	Corrective Action Needed and Notes (Identify needed maintenance and repairs, or any failed control measures that need replacement)
1	Storm Water Pond	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	
2	Forebay	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	
3	Super Silt Fence	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	
4	Drainage Swale	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	
5	Out Fall	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	
6		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	

	Structural Control Measure	Control Measure is Operating Effectively?	If No, In Need of Maintenance, Repair, or Replacement?	Corrective Action Needed and Notes (Identify needed maintenance and repairs, or any failed control measures that need replacement)
7		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	
8		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	
9		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	
10		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	

**Areas of Industrial Materials or Activities exposed to stormwater**

Below are some general areas that should be assessed during routine inspections. Customize this list as needed for the specific types of industrial materials or activities at your facility.

	Area/Activity	Inspected?	Controls Adequate (appropriate, effective, and operating)?	Corrective Action Needed and Notes
1	Material loading/unloading and storage areas	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
2	Equipment operations and maintenance areas	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	
3	Fueling areas	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	
4	Outdoor vehicle and equipment washing areas	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	
5	Waste handling and disposal areas	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
6	Erodible areas/construction	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
7	Non-stormwater/ Illicit connections	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
8	Salt storage piles or pile containing salt	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
9	Dust generation and vehicle tracking	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
10	(Other)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	

	Area/Activity	Inspected?	Controls Adequate (appropriate, effective, and operating)?	Corrective Action Needed and Notes
11	(Other)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	
12	(Other)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	

#### Non-Compliance

Describe any incidents of non-compliance observed and not described above:

#### Additional Control Measures

Describe any additional control measures needed to comply with the permit requirements:



**Notes**

Use this space for any additional notes or observations from the inspection:

**CERTIFICATION STATEMENT**

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Print name and title: Galt Reeder Foreman

Signature: D. L. Reeder Date: 5/22/12

## Quarterly Stormwater Industrial Facility Inspection Report

General Information			
Facility Name	Frederick County Highway Operations – Myersville Satellite Facility		
NPDES Tracking No.	MDE Permit 02SW2285		
Date of Inspection	6-21-12	Start/End Time	700 Am - 800 Am
Inspector's Name(s)	Tom Green		
Inspector's Title(s)	Ass. Foreman		
Inspector's Contact Information	301-293-1124		
Weather Information			
<b>Weather at time of this inspection?</b> <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Sleet <input type="checkbox"/> Fog <input type="checkbox"/> Snow <input type="checkbox"/> High Winds <input type="checkbox"/> Other:                      Temperature: 72°			
Have any previously unidentified discharges of pollutants occurred since the last inspection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe:			
Are there any discharges occurring at the time of inspection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe:			

### Control Measures

- The structural stormwater control measures identified in your SWPPP on your site map are listed below. Carry a copy of the numbered site map with you during your inspections. This list will ensure that you are inspecting all required control measures at your facility.
- Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log.

	Structural Control Measure	Control Measure is Operating Effectively?	If No, In Need of Maintenance, Repair, or Replacement?	Corrective Action Needed and Notes (identify needed maintenance and repairs, or any failed control measures that need replacement)
1	Stormwater Pond #1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	
2	Stormwater Pond #2	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	
3	Stormwater Pond #3	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	
4	Drainage Swales	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	
5	Super Silt Fence	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	

# Areas of Industrial Materials or Activities exposed to stormwater

Below is a list of areas that should be assessed during the facility's routine inspections.

	Area/Activity	Inspected?	Controls Adequate (appropriate, effective, and operating)?	Corrective Action Needed and Notes
<b>POLE BARN - VEHICLE/TRUCK STORAGE</b>				
<b>1a</b>	<b>Spills and Leaks:</b>			
	Is there evidence of spills/leaks (i.e. staining on ground, absorbent materials)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Staining under Trucks
	Have any spills/leaks been recorded for this area since the last inspection? If so, were they addressed and reported properly?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Are spill kits available and filled for use?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Are drip pans available for use for leaking vehicles?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>1b</b>	<b>Minimize Exposure:</b>			
	Are any materials, drums, containers exposed to precipitation? If so, are they sealed and labeled properly?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Is secondary containment provided for all 55 gal drums?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>1c</b>	<b>Good Housekeeping:</b>			
	Are all materials organized and stored in an orderly fashion?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Are all containers properly sealed and labeled?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Has all waste been disposed of properly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>OUTDOOR DUMPSTERS</b>				
<b>2a</b>	<b>Spills and Leaks:</b>			
	Is there evidence of spills/leaks (i.e. staining on ground, absorbent materials)? Do dumpsters appear to be leaking?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Have any spills/leaks been recorded for this area since the last inspection? If so, were they addressed and reported properly?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Are spill kits available and filled for use?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>2b</b>	<b>Minimize Exposure:</b>			

	Area/Activity	Inspected?	Controls Adequate (appropriate, effective, and operating)?	Corrective Action Needed and Notes
	Are any materials, drums, containers exposed to precipitation? If so, are they sealed and labeled properly?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	Are dumpster lids closed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Are dumpsters in good condition?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
2c	<b>Good Housekeeping:</b>			
	Has all waste been disposed of properly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>SALT BARN</b>				
3a	<b>Spills and Leaks:</b>			
	Is there evidence of spills/leaks on the pad outside of the barn?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Is Caliber M1000 storage tank protected and in good condition?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Have any spills/leaks been recorded for this area since the last inspection? If so, were they addressed and reported properly?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Are spill kits available and filled for use?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
3b	<b>Minimize Exposure:</b>			
	Is all salt and Anti-Skid aggregate contained within the salt barn?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
3c	<b>Good Housekeeping:</b>			
	Has the lot been swept since the last inspection? If so, when?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>STORAGE SHED</b>				
4a	<b>Spills and Leaks:</b>			
	Is there evidence of spills/leaks (i.e. staining on ground, absorbent materials)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Have any spills/leaks been recorded for this area since the last inspection? If so, were they addressed and reported properly?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Are spill kits available and filled for use?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
4b	<b>Minimize Exposure:</b>			
	Are any materials, drums, containers exposed to precipitation? If so, are they sealed and labeled properly?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

	Area/Activity	Inspected?	Controls Adequate (appropriate, effective, and operating)?	Corrective Action Needed and Notes
<b>4c</b>	<b>Good Housekeeping:</b>			
	Are all materials organized and stored in an orderly fashion?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Are all containers properly sealed and labeled?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Has all waste been disposed of properly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>STOCKPILES/HEAVY MACHINERY STORAGE AREA</b>				
<b>5a</b>	<b>Spills and Leaks:</b>			
	Is there evidence of spills/leaks (i.e. staining on ground, absorbent materials)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Have any spills/leaks been recorded for this area since the last inspection? If so, were they addressed and reported properly?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Are spill kits available and filled for use?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>5b</b>	<b>Minimize Exposure:</b>			
	Are stockpiles contained within concrete block areas?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

**Non-Compliance**

Describe any incidents of non-compliance observed and not described above:

**Additional Control Measures**

Describe any additional control measures needed to comply with the permit requirements:

### Notes

Use this space for any additional notes or observations from the inspection:

### CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Print name and title: Tom Green Ass. Forman

Signature: Tom Green Date: 6-21-12



## Quarterly Stormwater Industrial Facility Inspection Report

General Information			
Facility Name	Frederick County Highway Operations – Myersville Satellite Facility		
NPDES Tracking No.	MDE Permit 02SW2285		
Date of Inspection	9/17/12	Start/End Time	7:50 AM - 8:40 AM
Inspector's Name(s)	Gale Beeder		
Inspector's Title(s)	Fosman		
Inspector's Contact Information	301-293-1124		
Weather Information			
Weather at time of this inspection?			
<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Sleet <input type="checkbox"/> Fog <input type="checkbox"/> Snow <input type="checkbox"/> High Winds <input type="checkbox"/> Other:                      Temperature: 63			
Have any previously unidentified discharges of pollutants occurred since the last inspection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe:			
Are there any discharges occurring at the time of inspection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe:			

### Control Measures

- The structural stormwater control measures identified in your SWPPP on your site map are listed below. Carry a copy of the numbered site map with you during your inspections. This list will ensure that you are inspecting all required control measures at your facility.
- Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log.

	Structural Control Measure	Control Measure is Operating Effectively?	If No, In Need of Maintenance, Repair, or Replacement?	Corrective Action Needed and Notes (identify needed maintenance and repairs, or any failed control measures that need replacement)
1	Stormwater Pond #1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	
2	Stormwater Pond #2	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	
3	Stormwater Pond #3	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	
4	Drainage Swales	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	
5	Super Silt Fence	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	

**Areas of Industrial Materials or Activities exposed to stormwater**

*Below is a list of areas that should be assessed during the facility's routine inspections.*

	Area/Activity	Inspected?	Controls Adequate (appropriate, effective, and operating)?	Corrective Action Needed and Notes
<b>POLE BARN - VEHICLE/TRUCK STORAGE</b>				
<b>1a</b>	<b>Spills and Leaks:</b>			
	Is there evidence of spills/leaks (i.e. staining on ground, absorbent materials)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Staining under trucks
	Have any spills/leaks been recorded for this area since the last inspection? If so, were they addressed and reported properly?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Are spill kits available and filled for use?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Are drip pans available for use for leaking vehicles?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>1b</b>	<b>Minimize Exposure:</b>			
	Are any materials, drums, containers exposed to precipitation? If so, are they sealed and labeled properly?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Is secondary containment provided for all 55 gal drums?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>1c</b>	<b>Good Housekeeping:</b>			
	Are all materials organized and stored in an orderly fashion?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Are all containers properly sealed and labeled?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Has all waste been disposed of properly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>OUTDOOR DUMPSTERS</b>				
<b>2a</b>	<b>Spills and Leaks:</b>			
	Is there evidence of spills/leaks (i.e. staining on ground, absorbent materials)? Do dumpsters appear to be leaking?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Have any spills/leaks been recorded for this area since the last inspection? If so, were they addressed and reported properly?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Are spill kits available and filled for use?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>2b</b>	<b>Minimize Exposure:</b>			

	Area/Activity	Inspected?	Controls Adequate (appropriate, effective, and operating)?	Corrective Action Needed and Notes
	Are any materials, drums, containers exposed to precipitation? If so, are they sealed and labeled properly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Are dumpster lids closed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Are dumpsters in good condition?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>2c</b>	<b>Good Housekeeping:</b>			
	Has all waste been disposed of properly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>SALT BARN</b>				
<b>3a</b>	<b>Spills and Leaks:</b>			
	Is there evidence of spills/leaks on the pad outside of the barn?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Is Caliber M1000 storage tank protected and in good condition?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Have any spills/leaks been recorded for this area since the last inspection? If so, were they addressed and reported properly?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Are spill kits available and filled for use?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>3b</b>	<b>Minimize Exposure:</b>			
	Is all salt and Anti-Skid aggregate contained within the salt barn?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>3c</b>	<b>Good Housekeeping:</b>			
	Has the lot been swept since the last inspection? If so, when?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>STORAGE SHED</b>				
<b>4a</b>	<b>Spills and Leaks:</b>			
	Is there evidence of spills/leaks (i.e. staining on ground, absorbent materials)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Have any spills/leaks been recorded for this area since the last inspection? If so, were they addressed and reported properly?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Are spill kits available and filled for use?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>4b</b>	<b>Minimize Exposure:</b>			
	Are any materials, drums, containers exposed to precipitation? If so, are they sealed and labeled properly?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

	Area/Activity	Inspected?	Controls Adequate (appropriate, effective, and operating)?	Corrective Action Needed and Notes
<b>4c</b>	<b>Good Housekeeping:</b>			
	Are all materials organized and stored in an orderly fashion?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Are all containers properly sealed and labeled?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Has all waste been disposed of properly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>STOCKPILES/HEAVY MACHINERY STORAGE AREA</b>				
<b>5a</b>	<b>Spills and Leaks:</b>			
	Is there evidence of spills/leaks (i.e. staining on ground, absorbent materials)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Have any spills/leaks been recorded for this area since the last inspection? If so, were they addressed and reported properly?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Are spill kits available and filled for use?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>5b</b>	<b>Minimize Exposure:</b>			
	Are stockpiles contained within concrete block areas?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

**Non-Compliance**

Describe any incidents of non-compliance observed and not described above:

**Additional Control Measures**

Describe any additional control measures needed to comply with the permit requirements:

### Notes

Use this space for any additional notes or observations from the inspection:

### CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Print name and title: Gale Reeder Forman

Signature: W. D. Duke Date: 9/17/12

## Quarterly Stormwater Industrial Facility Inspection Report

General Information			
Facility Name	Frederick County Highway Operations -- Myersville Satellite Facility		
NPDES Tracking No.	MDE Permit 02SW2285		
Date of Inspection	03/5/2013	Start/End Time	12:40 ____ 1:30
Inspector's Name(s)	Tom Green		
Inspector's Title(s)	Assistant Forman		
Inspector's Contact Information	301-293-1124		
Weather Information			
Weather at time of this inspection?			
<input type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Sleet <input type="checkbox"/> Fog <input type="checkbox"/> Snow <input type="checkbox"/> High Winds <input type="checkbox"/> Other: _____ Temperature: <u>43</u>			
Have any previously unidentified discharges of pollutants occurred since the last inspection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
If yes, describe:			
Are there any discharges occurring at the time of inspection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
If yes, describe:			

### Control Measures

- The structural stormwater control measures identified in your SWPPP on your site map are listed below. Carry a copy of the numbered site map with you during your inspections. This list will ensure that you are inspecting all required control measures at your facility.
- Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log.

	Structural Control Measure	Control Measure is Operating Effectively?	If No, In Need of Maintenance, Repair, or Replacement?	Corrective Action Needed and Notes (identify needed maintenance and repairs, or any failed control measures that need replacement)
1	Stormwater Pond #1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	
2	Stormwater Pond #2	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	
3	Stormwater Pond #3	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	
4	Drainage Swales	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	
5	Super Silt Fence	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	



**Areas of Industrial Materials or Activities exposed to stormwater**

*Below is a list of areas that should be assessed during the facility's routine inspections.*

	Area/Activity	Inspected?	Controls Adequate (appropriate, effective, and operating)?	Corrective Action Needed and Notes
<b>POLE BARN - VEHICLE/TRUCK STORAGE</b>				
<b>1a</b>	<b>Spills and Leaks:</b>			
	Is there evidence of spills/leaks (i.e. staining on ground, absorbent materials)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	staining under Trucks
	Have any spills/leaks been recorded for this area since the last inspection? If so, were they addressed and reported properly?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Are spill kits available and filled for use?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Are drip pans available for use for leaking vehicles?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>1b</b>	<b>Minimize Exposure:</b>			
	Are any materials, drums, containers exposed to precipitation? If so, are they sealed and labeled properly?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Is secondary containment provided for all 55 gal drums?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>1c</b>	<b>Good Housekeeping:</b>			
	Are all materials organized and stored in an orderly fashion?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Are all containers properly sealed and labeled?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Has all waste been disposed of properly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>OUTDOOR DUMPSTERS</b>				
<b>2a</b>	<b>Spills and Leaks:</b>			
	Is there evidence of spills/leaks (i.e. staining on ground, absorbent materials)? Do dumpsters appear to be leaking?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Have any spills/leaks been recorded for this area since the last inspection? If so, were they addressed and reported properly?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Are spill kits available and filled for use?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>2b</b>	<b>Minimize Exposure:</b>			

	Area/Activity	Inspected?	Controls Adequate (appropriate, effective, and operating)?	Corrective Action Needed and Notes
	Are any materials, drums, containers exposed to precipitation? If so, are they sealed and labeled properly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Are dumpster lids closed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Are dumpsters in good condition?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>2c</b>	<b>Good Housekeeping:</b>			
	Has all waste been disposed of properly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>SALT BARN</b>				
<b>3a</b>	<b>Spills and Leaks:</b>			
	Is there evidence of spills/leaks on the pad outside of the barn?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>Salt outside needs swept</i>
	Is Caliber M1000 storage tank protected and in good condition?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Have any spills/leaks been recorded for this area since the last inspection? If so, were they addressed and reported properly?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Are spill kits available and filled for use?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>3b</b>	<b>Minimize Exposure:</b>			
	Is all salt and Anti-Skid aggregate contained within the salt barn?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>3c</b>	<b>Good Housekeeping:</b>			
	Has the lot been swept since the last inspection? If so, when?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>Needs swept Again</i>
<b>STORAGE SHED</b>				
<b>4a</b>	<b>Spills and Leaks:</b>			
	Is there evidence of spills/leaks (i.e. staining on ground, absorbent materials)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Have any spills/leaks been recorded for this area since the last inspection? If so, were they addressed and reported properly?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Are spill kits available and filled for use?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>4b</b>	<b>Minimize Exposure:</b>			
	Are any materials, drums, containers exposed to precipitation? If so, are they sealed and labeled properly?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

	Area/Activity	Inspected?	Controls Adequate (appropriate, effective, and operating)?	Corrective Action Needed and Notes
4c	<b>Good Housekeeping:</b>			
	Are all materials organized and stored in an orderly fashion?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Are all containers properly sealed and labeled?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Has all waste been disposed of properly?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>STOCKPILES/HEAVY MACHINERY STORAGE AREA</b>				
5a	<b>Spills and Leaks:</b>			
	Is there evidence of spills/leaks (i.e. staining on ground, absorbent materials)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Have any spills/leaks been recorded for this area since the last inspection? If so, were they addressed and reported properly?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Are spill kits available and filled for use?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5b	<b>Minimize Exposure:</b>			
	Are stockpiles contained within concrete block areas?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

**Non-Compliance**

Describe any incidents of non-compliance observed and not described above:

**Additional Control Measures**

Describe any additional control measures needed to comply with the permit requirements:

### Notes

Use this space for any additional notes or observations from the inspection:

### CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Print name and title: Tom Green Asst. Foreman

Signature: Tom Green Date: 3-5-13

**SECTION A: GENERAL INFORMATION**

Facility Name: Frederick County Highway Operations - Myersville  
Facility

NPDES Permit Number: MDE Permit 02SW2285

Facility Address: 10917 Pleasant Walk Rd, Myersville, MD 21773

Date of Inspection: 6/26/13

Start/End Time of Inspection:

12:30 - 1:40

Inspector's Name(s) and Contact Information:

Gale Reeder  
10917 Pleasant Walk Road  
Myersville, MD 21773 301-293-1124

Emergency Phone: 240-674-1511

Facility Representative(s) in Attendance and Contact Information:

Weather Information: Weather at time of inspection? [CIRCLE ALL THAT APPLY]

Clear

Cloudy

Rain

Sleet

Fog

Snow

High Winds

Other:

## SECTION B: INSPECTION OF BMPs AND AREAS OF INDUSTRIAL ACTIVITIES

STORMWATER POND – CELL #1		Additional Comments/Notes
(1) Does the pond appear to be functioning properly?	<input checked="" type="radio"/> YES <input type="radio"/> NO	
(2) Is there an excessive amount of litter in the pond?	YES <input type="radio"/> NO <input checked="" type="radio"/>	
(3) Does there appear to be a significant amount of sediment accumulated in the pond?	YES <input type="radio"/> NO <input checked="" type="radio"/>	
(4) If the pond has water, is there an excessive amount of algae present?	YES <input type="radio"/> NO <input checked="" type="radio"/>	
(5) Does the inlet(s) have dry weather flow <sup>1</sup> ?	YES <input type="radio"/> NO <input checked="" type="radio"/>	
(6) If the pond has water, is there an odor?	YES <input type="radio"/> NO <input checked="" type="radio"/>	
(7) If the pond has water, is the water discolored?	<input checked="" type="radio"/> YES <input type="radio"/> NO	
(8) Is there evidence of erosion present on the banks of the pond?	YES <input type="radio"/> NO <input checked="" type="radio"/>	
(9) Is there any other condition that appears to be abnormal?	YES <input type="radio"/> NO <input checked="" type="radio"/>	
(a) If YES is circled for any of the questions (2-9) above, provide a description of the condition, corrective action necessary and photo (if possible).		
<sup>1</sup> Dry weather flow = presence of flowing water when it has not rained within the last 48 hours.		

STORMWATER POND – CELL #2		Additional Comments/Notes
(1) Does the pond appear to be functioning properly?	<input checked="" type="radio"/> YES <input type="radio"/> NO	
(2) Is there an excessive amount of litter in the pond?	YES <input type="radio"/> NO <input checked="" type="radio"/>	
(3) Does there appear to be a significant amount of sediment accumulated in the pond?	YES <input type="radio"/> NO <input checked="" type="radio"/>	
(4) If the pond has water, is there an excessive amount of algae present?	YES <input type="radio"/> NO <input checked="" type="radio"/>	
(5) Does the inlet(s) have dry weather flow <sup>1</sup> ?	YES <input type="radio"/> NO <input checked="" type="radio"/>	
(6) If the pond has water, is there an odor?	YES <input type="radio"/> NO <input checked="" type="radio"/>	
(7) If the pond has water, is the water discolored?	YES <input type="radio"/> NO <input checked="" type="radio"/>	
(8) Is there evidence of erosion present on the banks of the pond?	YES <input type="radio"/> NO <input checked="" type="radio"/>	



# Stormwater Industrial Facility Routine/Quarterly Inspection Report

(9) Is there any other condition that appears to be abnormal?	YES	(NO)
(a) If YES is circled for any of the questions (2-9) above, provide a description of the condition, corrective action necessary and photo (if possible).		
<sup>1</sup> Dry weather flow = presence of flowing water when it has not rained within the last 48 hours.		

STORMWATER POND – CELL #3		Additional Comments/Notes
(1) Does the pond appear to be functioning properly?	(YES)	NO
(2) Is there an excessive amount of litter in the pond?	YES	(NO)
(3) Does there appear to be a significant amount of sediment accumulated in the pond?	YES	(NO)
(4) If the pond has water, is there an excessive amount of algae present?	YES	(NO)
(5) Does the inlet(s) have dry weather flow <sup>1</sup> ?	YES	(NO)
(6) If the pond has water, is there an odor?	YES	(NO)
(7) If the pond has water, is the water discolored?	YES	(NO)
(8) Is there evidence of erosion present on the banks of the pond?	YES	(NO)
(9) Is there any other condition that appears to be abnormal?	YES	(NO)
(a) If YES is circled for any of the questions (2-9) above, provide a description of the condition, corrective action necessary and photo (if possible).		
<sup>1</sup> Dry weather flow = presence of flowing water when it has not rained within the last 48 hours.		

DRAINAGE SWALES		Additional Comments/Notes
(1) Do the drainage swales appear to be functioning properly?	(YES)	NO
(2) Is there an excessive amount of litter in the drainage swales?	YES	(NO)
(3) Does there appear to be a significant amount of sediment accumulated in	YES	(NO)

# Stormwater Industrial Facility Routine/Quarterly Inspection Report

the drainage swales?	
(4) Is there dry weather flow <sup>1</sup> in the drainage swales?	YES
(5) If the drainage swales have water, is there an odor?	YES
(6) If the drainage swales have water, is the water discolored?	YES
(7) Is there evidence of erosion along the drainage swales?	YES
(8) Is there any other condition that appears to be abnormal?	YES
(a) If YES is circled for any of the questions (2-9) above, provide a description of the condition, corrective action necessary and photo (if possible).	
<sup>1</sup> Dry weather flow = presence of flowing water when it has not rained within the last 48 hours.	

Additional Comments/Notes	
<p><b>SUPER SILT FENCE</b></p> <p>(1) Is silt fence in place? YES NO</p> <p>(2) Is the silt fence properly installed? YES NO</p> <p>(3) Does the silt fence require any maintenance? YES NO</p> <p>(a) If YES, provide a description of the condition and any required corrective actions below.</p>	

Additional Comments/Notes	
<p><b>OUTDOOR DUMPSTERS</b></p> <p>(1) Do dumpsters appear to be leaking (i.e. is there evidence of staining on the ground)? YES NO</p> <p>(2) Are dumpster lids closed? YES NO</p> <p>(3) Are dumpster lids in good condition? YES NO</p> <p>(4) Are dumpsters in good condition? YES NO</p> <p>(5) Has all waste been disposed of properly? YES NO</p>	

Stormwater Industrial Facility Routine/Quarterly Inspection Report

POLE BARN/VEHICLE STORAGE BUILDING		Additional Comments/Notes
(1) Is there evidence of spills/leaks (i.e. staining or absorbent materials on the ground)?	<input checked="" type="radio"/> YES (If NO, skip to #2.)	
(a) Was the source of the spill identified?	<input checked="" type="radio"/> YES	
(b) Was the source of the spill eliminated	YES	
(c) Was a spill form completed?	<input checked="" type="radio"/> NO	
(d) Was the spill reported?	YES	
(e) Was the spill cleaned up properly?	<input checked="" type="radio"/> YES	
<p>- If NO is circled for any of the questions (a-e) above, provide an explanation of why</p> <p><i>Staining from Equipment</i></p>		
(2) Are any materials, drums, or containers exposed to precipitation?	YES	<input checked="" type="radio"/> NO
(a) If YES, are they sealed and labeled properly?	YES	NO
(3) Are spill kits available for use?	<input checked="" type="radio"/> YES	NO
(a) If YES, do the spill kits need to be restocked?	YES	<input checked="" type="radio"/> NO
(4) Are all drums stored in secondary containment?	<input checked="" type="radio"/> YES	NO
(5) Are all containers properly sealed and labeled?	<input checked="" type="radio"/> YES	NO
(6) Are materials stored in an orderly fashion?	<input checked="" type="radio"/> YES	NO

SALT BARN		Additional Comments/Notes
(1) Is there evidence of spills/leaks (i.e. staining or absorbent materials on the ground)?	YES	<input checked="" type="radio"/> NO (If NO, skip to #2.)
(a) Was the source of the spill identified?	YES	NO
(b) Was the source of the spill eliminated	YES	NO
(c) Was a spill form completed?	YES	NO
(d) Was the spill reported?	YES	NO
(e) Was the spill cleaned up properly?	YES	NO
<p>- If NO is circled for any of the questions (a-e) above, provide an explanation of why</p>		

# Stormwater Industrial Facility Routine/Quarterly Inspection Report

(2) Are Caliber M1000 storage tanks protected and in good condition?	<input checked="" type="checkbox"/> YES	NO
(1) Is all salt and Anti-Skid aggregate contained within the salt barn?	<input checked="" type="checkbox"/> YES	NO
(2) Has the lot been swept since the last inspection?	<input checked="" type="checkbox"/> YES	NO
- If YES, please provide date:		

STORAGE SHED		Additional Comments/Notes
(1) Is there evidence of spills/leaks (i.e. staining or absorbent materials on the ground)?	YES <input checked="" type="checkbox"/> (If NO, skip to #2)	
(a) Was the source of the spill identified?	YES	
(b) Was the source of the spill eliminated?	YES	
(c) Was a spill form completed?	YES	
(d) Was the spill reported?	YES	
(e) Was the spill cleaned up properly?	YES	
- If NO is circled for any of the questions (a-e) above, provide an explanation of why		
(2) Are any materials, drums, or containers exposed to precipitation?	YES <input checked="" type="checkbox"/> NO	
(a) If YES, are they sealed and labeled properly?	YES	
(3) Are spill kits available for use?	YES <input checked="" type="checkbox"/> NO	
(a) If YES, do the spill kits need to be restocked?	YES	
(4) Are all drums stored in secondary containment?	<input checked="" type="checkbox"/> YES	
(5) Are all containers properly sealed and labeled?	<input checked="" type="checkbox"/> YES	
(6) Are materials stored in an orderly fashion?	<input checked="" type="checkbox"/> YES	

Stormwater Industrial Facility Routine/Quarterly Inspection Report

STEEL STORAGE SHED (between salt bard and shop)		Additional Comments/Notes
(1) Is there evidence of spills/leaks (i.e. staining or absorbent materials on the ground)?	YES (If NO, skip to #2)	
(a) Was the source of the spill identified?	YES	
(b) Was the source of the spill eliminated	YES	
(c) Was a spill form completed?	YES	
(d) Was the spill reported?	YES	
(e) Was the spill cleaned up properly?	YES	
- If NO is circled for any of the questions (a-e) above, provide an explanation of why		
(2) Are any materials, drums, or containers exposed to precipitation?	YES	
(a) IF YES, are they sealed and labeled properly?	YES	
(3) Are spill kits available for use?	YES	
(a) IF YES, do the spill kits need to be restocked?	YES	
(4) Are materials stored in secondary containment?	YES	
(5) Are all containers properly sealed and labeled?	YES	
(6) Are materials stored in an orderly fashion?	YES	

STOCKPILES/HEAVY MACHINERY STORAGE AREA		Additional Comments/Notes
(1) Is there evidence of spills/leaks from heavy machinery (i.e. staining or absorbent materials on the ground)?	YES (If NO, skip to #2)	
(a) Was the source of the spill identified?	YES	
(b) Was the source of the spill eliminated	YES	
(c) Was a spill form completed?	YES	
(d) Was the spill reported?	YES	
(e) Was the spill cleaned up properly?	YES	
- If NO is circled for any of the questions (a-e) above, provide an explanation of why		

# Stormwater Industrial Facility Routine/Quarterly Inspection Report

(2) Are all stockpiles contained within the concrete block area?	<input checked="" type="checkbox"/> YES	NO
(3) Are spill kits available for use?	<input checked="" type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
(a) If YES, do the spill kits need to be restocked?	<input checked="" type="checkbox"/> YES	NO
(4) Are all drums stored in secondary containment?	<input checked="" type="checkbox"/> YES	NO
(5) Are all containers properly sealed and labeled?	<input checked="" type="checkbox"/> YES	NO
(6) Are materials stored in an orderly fashion?	<input checked="" type="checkbox"/> YES	NO

STUMP/MULCH STOCKPILES		Additional Comments/Notes
(1) Is all material stockpiled so that stormwater is carried towards the silt fence?	<input checked="" type="checkbox"/> YES	NO
(2) Are materials stored in an orderly fashion?	<input checked="" type="checkbox"/> YES	NO

## SECTION C: GENERAL INSPECTION FINDINGS

(1) As part of this comprehensive site inspection, did you inspect all potential pollutant sources, including areas where industrial activity may be exposed to stormwater?	<input checked="" type="checkbox"/> YES	NO	Additional Comments/Notes
(1) If NO, describe why not			
(2) Did this inspection identify any stormwater or non-stormwater outfalls not previously identified in the SWPPP?	<input checked="" type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	Additional Comments/Notes
(a) If YES, for each location, describe the sources of those stormwater and non-stormwater discharges and any associated control measures in place			

# Stormwater Industrial Facility Routine/Quarterly Inspection Report

<p>(3) Did this inspection identify any sources of stormwater or non-stormwater discharges not previously identified in the SWPPP?</p> <p>(a) If YES, describe the sources of stormwater or non-stormwater pollutants expected to be present in these discharges, and any control measures in place</p>	<p>YES <input checked="" type="radio"/> NO</p>	<p>Additional Comments/Notes</p>
<p>(4) Did you review stormwater monitoring data as part of this inspection to identify potential pollutant hotspots?</p> <p>(a) If YES, summarize the findings of that review and describe any additional inspection activities resulting from this review</p>	<p>YES <input checked="" type="radio"/> NO</p>	<p>Additional Comments/Notes</p>
<p>(5) Describe any evidence of pollutants entering the drainage system or discharging to surface waters, and the condition of and around outfalls, including flow dissipation measures to prevent scouring</p>		<p>Additional Comments/Notes</p>
<p>(6) Have you taken or do you plan to take any corrective action, as specified in the permit, since your last annual report submission (or since you received authorization to discharge under this permit if this is your first annual report), including any correcting actions identified as a result of this annual comprehensive site inspection?</p> <p>(a) If YES, please provide a description</p>	<p>YES <input checked="" type="radio"/> NO</p>	<p>Additional Comments/Notes</p>





***ATTACHMENT E – Comprehensive Annual  
Inspection Reporting Form & Record Keeping  
Section***

Send a copy of all completed inspection forms to the Assistant Superintendent.

Completed inspection forms shall be filed in this SWPPP and maintained as long as Highway Operations operates the facility.

Copies of all forms and record keeping documents must be submitted to Jessica Seipp with WMS by December 31<sup>st</sup> of each year. She can be reached at 301.600.1350 or [jseipp@frederickcountymd.gov](mailto:jseipp@frederickcountymd.gov).

Stormwater Industrial Facility Annual/Comprehensive Inspection Report

**SECTION A: GENERAL INFORMATION**

**Facility Name:** Frederick County Highway Operations - Myersville Facility

**NPDES Permit Number:** MDE Permit 02SW2285

**Facility Address:** 10917 Pleasant Walk Rd, Myersville, MD 21773

**Date of Inspection:**

**Start/End Time of Inspection:**

**Inspector's Name(s) and Contact Information:**

**Facility Representative(s) in Attendance and Contact Information:**

**Weather Information:** Weather at time of inspection? [CIRCLE ALL THAT APPLY]

Clear

Cloudy

Rain

Sleet

Fog

Snow

High Winds

Other:

**Stormwater Industrial Facility Annual/Comprehensive Inspection Report**

**SECTION B: REVIEW OF SWPPP**

**(Note:** Per the regulations under the General Discharge Permit for Stormwater Associated with Industrial Activities [02-SW], only item #5 below is a requirement of the Annual Inspection.)

(1) Does the facility have a SWPPP in place?	YES	NO	<b>Additional Comments/Notes</b>
(a) If <b>NO</b> , provide a brief description explaining reason			
(2) Is the contact information on the cover page of the SWPPP up to date?	YES	NO	<b>Additional Comments/Notes</b>
(a) If <b>NO</b> , how does the information need to be updated?			
(3) Is the Stormwater Pollution Prevention Team up to date?	YES	NO	<b>Additional Comments/Notes</b>
(a) If <b>NO</b> , how does this information need to be updated?			
(4) Have conditions on-site changed since the last update of the SWPPP?	YES	NO	<b>Additional Comments/Notes</b>
(a) If <b>YES</b> , how does this information need to be updated?			
(5) Are the site map (Attachment B) and list of industrial activities (Section 2.1) up to date?	YES	NO	<b>Additional Comments/Notes</b>
(a) If <b>NO</b> , how does this information need to be updated?			

### Stormwater Industrial Facility Annual/Comprehensive Inspection Report

(6) Is the SWPPP signed?	YES	NO	
If <b>NO</b> , contact the SWPPP team leader to have the document signed immediately.			

### SECTION C: REVIEW OF ROUTINE/QUARTERLY INSPECTION FORMS

(Note: Items reviewed below are a requirement of the facility's SWPPP. Per the regulations under the General Discharge Permit for Stormwater Associated with Industrial Activities [02-SW], they are not a requirement of the Annual Inspection)

(1) Have routine/quarterly inspections been completed?	YES	NO	Additional Comments/Notes
(a) If <b>NO</b> , provide a brief description explaining reason.			
(2) Have routine/quarterly inspection forms been filed with the SWPPP?	YES	NO	Additional Comments/Notes
(a) If <b>NO</b> , provide a brief description explaining reason.			
(3) Were any corrective actions or necessary maintenance requirements identified on the routine/quarterly inspection forms?	YES	NO	Additional Comments/Notes
(a) If <b>YES</b> , provide a brief description and indicate whether they were completed.			

## Stormwater Industrial Facility Annual/Comprehensive Inspection Report

### **SECTION D: REVIEW OF SPILL RESPONSE FORMS**

(Note: Items reviewed below are a requirement of the facility's SWPPP. Per the regulations under the General Discharge Permit for Stormwater Associated with Industrial Activities [02-SW], they are not a requirement of the Annual Inspection)

(1) Have any spills been reported for the site?	YES	NO	<b>Additional Comments/Notes</b>
(a) Provide a brief explanation.			
(2) If spills were reported, were the correct spill response procedures followed?	YES	NO	<b>Additional Comments/Notes</b>
(a) If NO, provide a brief description explaining reason.			

### **SECTION E: EMPLOYEE TRAINING**

(Note: Items reviewed below are a requirement of the facility's SWPPP. Per the regulations under the General Discharge Permit for Stormwater Associated with Industrial Activities [02-SW], they are not a requirement of the Annual Inspection)

(1) Have all employees completed the required employee training?	YES	NO	<b>Additional Comments/Notes</b>
(a) If NO, provide a brief description explaining reason.			
(2) If YES, are sign-in sheets and copies of the training curriculum included in the SWPPP?	YES	NO	<b>Additional Comments/Notes</b>
(a) If NO, provide a brief description why.			

Stormwater Industrial Facility Annual/Comprehensive Inspection Report

**SECTION F: INSPECTION OF BMPs AND AREAS OF INDUSTRIAL ACTIVITIES**

STORMWATER POND – CELL #1			Additional Comments/Notes
(1) Does the pond appear to be functioning properly?	YES	NO	
(2) Is there an excessive amount of litter in the pond?	YES	NO	
(3) Does there appear to be a significant amount of sediment accumulated in the pond?	YES	NO	
(4) If the pond has water, is there an excessive amount of algae present?	YES	NO	
(5) Does the inlet(s) have dry weather flow <sup>1</sup> ?	YES	NO	
(6) If the pond has water, is there an odor?	YES	NO	
(7) If the pond has water, is the water discolored?	YES	NO	
(8) Is there evidence of erosion present on the banks of the pond?	YES	NO	
(9) Is there any other condition that appears to be abnormal?	YES	NO	
(a) If YES is circled for any of the questions (2-9) above, provide a description of the condition, corrective action necessary and photo (if possible).			

<sup>1</sup>Dry weather flow = presence of flowing water when it has not rained within the last 48 hours.

STORMWATER POND – CELL #2			Additional Comments/Notes
(1) Does the pond appear to be functioning properly?	YES	NO	
(2) Is there an excessive amount of litter in the pond?	YES	NO	
(3) Does there appear to be a significant amount of sediment accumulated in the pond?	YES	NO	
(4) If the pond has water, is there an excessive amount of algae present?	YES	NO	
(5) Does the inlet(s) have dry weather flow <sup>1</sup> ?	YES	NO	
(6) If the pond has water, is there an odor?	YES	NO	
(7) If the pond has water, is the water discolored?	YES	NO	
(8) Is there evidence of erosion present on the banks of the pond?	YES	NO	

### Stormwater Industrial Facility Annual/Comprehensive Inspection Report

(9) Is there any other condition that appears to be abnormal?	YES	NO	
(a) If YES is circled for any of the questions (2-9) above, provide a description of the condition, corrective action necessary and photo (if possible).			
<sup>1</sup> Dry weather flow = presence of flowing water when it has not rained within the last 48 hours.			

STORMWATER POND – CELL #3			Additional Comments/Notes
(1) Does the pond appear to be functioning properly?	YES	NO	
(2) Is there an excessive amount of litter in the pond?	YES	NO	
(3) Does there appear to be a significant amount of sediment accumulated in the pond?	YES	NO	
(4) If the pond has water, is there an excessive amount of algae present?	YES	NO	
(5) Does the inlet(s) have dry weather flow <sup>1</sup> ?	YES	NO	
(6) If the pond has water, is there an odor?	YES	NO	
(7) If the pond has water, is the water discolored?	YES	NO	
(8) Is there evidence of erosion present on the banks of the pond?	YES	NO	
(9) Is there any other condition that appears to be abnormal?	YES	NO	
(a) If YES is circled for any of the questions (2-9) above, provide a description of the condition, corrective action necessary and photo (if possible).			
<sup>1</sup> Dry weather flow = presence of flowing water when it has not rained within the last 48 hours.			

DRAINAGE SWALES			Additional Comments/Notes
(1) Do the drainage swales appear to be functioning properly?	YES	NO	
(2) Is there an excessive amount of litter in the drainage swales?	YES	NO	
(3) Does there appear to be a significant amount of sediment accumulated in	YES	NO	



### Stormwater Industrial Facility Annual/Comprehensive Inspection Report

the drainage swales?			
(4) Is there dry weather flow <sup>1</sup> in the drainage swales?	YES	NO	
(5) If the drainage swales have water, is there an odor?	YES	NO	
(6) If the drainage swales have water, is the water discolored?	YES	NO	
(7) Is there evidence of erosion along the drainage swales?	YES	NO	
(8) Is there any other condition that appears to be abnormal?	YES	NO	
(a) If YES is circled for any of the questions (2-9) above, provide a description of the condition, corrective action necessary and photo (if possible).			
<sup>1</sup> Dry weather flow = presence of flowing water when it has not rained within the last 48 hours.			

SUPER SILT FENCE			Additional Comments/Notes
(1) Is silt fence in place?	YES	NO	
(2) Is the silt fence properly installed?	YES	NO	
(3) Does the silt fence require any maintenance?	YES	NO	
(a) If YES, provide a description of the condition and any required corrective actions below.			

OUTDOOR DUMPSTERS			Additional Comments/Notes
(1) Do dumpsters appear to be leaking (i.e. is there evidence of staining on the ground)?	YES	NO	
(2) Are dumpster lids closed?	YES	NO	
(3) Are dumpster lids in good condition?	YES	NO	
(4) Are dumpsters in good condition?	YES	NO	
(5) Has all waste been disposed of properly?	YES	NO	

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<b>POLE BARN/VEHICLE STORAGE BUILDING</b>			<b>Additional Comments/Notes</b>
(1) Is there evidence of spills/leaks (i.e. staining or absorbent materials on the ground)?	YES	NO	
	(If <b>NO</b> , skip to #2)		
(a) Was the source of the spill identified?	YES	NO	
(b) Was the source of the spill eliminated	YES	NO	
(c) Was a spill form completed?	YES	NO	
(d) Was the spill reported?	YES	NO	
(e) Was the spill cleaned up properly?	YES	NO	
- If <b>NO</b> is circled for any of the questions (a-e) above, provide an explanation of why			
(2) Are any materials, drums, or containers exposed to precipitation?	YES	NO	
(a) If <b>YES</b> , are they sealed and labeled properly?	YES	NO	
(3) Are spill kits available for use?	YES	NO	
(a) If <b>YES</b> , do the spill kits need to be restocked?	YES	NO	
(4) Are all drums stored in secondary containment?	YES	NO	
(5) Are all containers properly sealed and labeled?	YES	NO	
(6) Are materials stored in an orderly fashion?	YES	NO	

<b>SALT BARN</b>			<b>Additional Comments/Notes</b>
(1) Is there evidence of spills/leaks (i.e. staining or absorbent materials on the ground)?	YES	NO	
	(If <b>NO</b> , skip to #2)		
(a) Was the source of the spill identified?	YES	NO	
(b) Was the source of the spill eliminated	YES	NO	
(c) Was a spill form completed?	YES	NO	
(d) Was the spill reported?	YES	NO	
(e) Was the spill cleaned up properly?	YES	NO	
- If <b>NO</b> is circled for any of the questions (a-e) above, provide an explanation of why			

### Stormwater Industrial Facility Annual/Comprehensive Inspection Report

(2) Are Caliber M1000 storage tanks protected and in good condition?	YES	NO	
(1) Is all salt and Anti-Skid aggregate contained within the salt barn?	YES	NO	
(2) Has the lot been swept since the last inspection?	YES	NO	
- If YES, please provide date:			

STORAGE SHED			Additional Comments/Notes
(1) Is there evidence of spills/leaks (i.e. staining or absorbent materials on the ground)?	YES	NO	
(a) Was the source of the spill identified?	(If <b>NO</b> , skip to #2)		
(b) Was the source of the spill eliminated	YES	NO	
(c) Was a spill form completed?	YES	NO	
(d) Was the spill reported?	YES	NO	
(e) Was the spill cleaned up properly?	YES	NO	
- If <b>NO</b> is circled for any of the questions (a-e) above, provide an explanation of why			
(2) Are any materials, drums, or containers exposed to precipitation?	YES	NO	
(a) If <b>YES</b> , are they sealed and labeled properly?	YES	NO	
(3) Are spill kits available for use?	YES	NO	
(a) If <b>YES</b> , do the spill kits need to be restocked?	YES	NO	
(4) Are all drums stored in secondary containment?	YES	NO	
(5) Are all containers properly sealed and labeled?	YES	NO	
(6) Are materials stored in an orderly fashion?	YES	NO	

STEEL STORAGE SHED (between salt bard and shop)			Additional Comments/Notes
(1) Is there evidence of spills/leaks (i.e. staining or absorbent materials on	YES	NO	

### Stormwater Industrial Facility Annual/Comprehensive Inspection Report

the ground)?	(If <b>NO</b> , skip to #2)		
(a) Was the source of the spill identified?	YES	NO	
(b) Was the source of the spill eliminated	YES	NO	
(c) Was a spill form completed?	YES	NO	
(d) Was the spill reported?	YES	NO	
(e) Was the spill cleaned up properly?	YES	NO	
- If <b>NO</b> is circled for any of the questions (a-e) above, provide an explanation of why			
(2) Are any materials, drums, or containers exposed to precipitation?	YES	NO	
(a) If <b>YES</b> , are they sealed and labeled properly?	YES	NO	
(3) Are spill kits available for use?	YES	NO	
(a) If <b>YES</b> , do the spill kits need to be restocked?	YES	NO	
(4) Are materials stored in secondary containment?	YES	NO	
(5) Are all containers properly sealed and labeled?	YES	NO	
(6) Are materials stored in an orderly fashion?	YES	NO	

STOCKPILES/HEAVY MACHINERY STORAGE AREA			Additional Comments/Notes
(1) Is there evidence of spills/leaks from heavy machinery (i.e. staining or absorbent materials on the ground)?	YES	NO	
	(If <b>NO</b> , skip to #2)		
(a) Was the source of the spill identified?	YES	NO	
(b) Was the source of the spill eliminated	YES	NO	
(c) Was a spill form completed?	YES	NO	
(d) Was the spill reported?	YES	NO	
(e) Was the spill cleaned up properly?	YES	NO	
- If <b>NO</b> is circled for any of the questions (a-e) above, provide an explanation of why			

### Stormwater Industrial Facility Annual/Comprehensive Inspection Report

(2) Are all stockpiles contained within the concrete block area?	YES	NO	
(3) Are spill kits available for use?	YES	NO	
(a) If YES, do the spill kits need to be restocked?	YES	NO	
(4) Are all drums stored in secondary containment?	YES	NO	
(5) Are all containers properly sealed and labeled?	YES	NO	
(6) Are materials stored in an orderly fashion?	YES	NO	

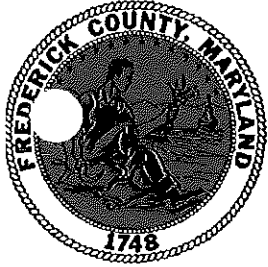
STUMP/MULCH STOCKPILES			Additional Comments/Notes
(1) Is all material stockpiled so that stormwater is carried towards the silt fence?	YES	NO	
(2) Are materials stored in an orderly fashion?	YES	NO	

### SECTION G: GENERAL INSPECTION FINDINGS

(1) As part of this comprehensive site inspection, did you inspect all potential pollutant sources, including areas where industrial activity may be exposed to stormwater?	YES	NO	Additional Comments/Notes
(1) If NO, describe why not			
(2) Did this inspection identify any stormwater or non-stormwater outfalls not previously identified in the SWPPP?	YES	NO	Additional Comments/Notes
(b) If YES, for each location, describe the sources of those stormwater and non-stormwater discharges and any associated control measures in place			

**Stormwater Industrial Facility Annual/Comprehensive Inspection Report**

(3) Did this inspection identify any sources of stormwater or non-stormwater discharges not previously identified in the SWPPP?	YES      NO	<b>Additional Comments/Notes</b>
(b) If YES, describe the sources of stormwater or non-stormwater pollutants expected to be present in these discharges, and any control measures in place		
(4) Did you review stormwater monitoring data as part of this inspection to identify potential pollutant hotspots?	YES      NO      N/A	<b>Additional Comments/Notes</b>
(b) If YES, summarize the findings of that review and describe any additional inspection activities resulting from this review		
(5) Describe any evidence of pollutants entering the drainage system or discharging to surface waters, and the condition of and around outfalls, including flow dissipation measures to prevent scouring		<b>Additional Comments/Notes</b>
(6) Have you taken or do you plan to take any corrective action, as specified in the permit, since your last annual report submission (or since you received authorization to discharge under this permit if this is your first annual report), including any correcting actions identified as a result of this annual comprehensive site inspection?	YES      NO	<b>Additional Comments/Notes</b>
(a) If YES, please provide a description		



**FREDERICK COUNTY GOVERNMENT  
DIVISION OF COMMUNITY DEVELOPMENT**

*Eric E. Soter, Director*

***Planning & Development Review Department  
Office of Sustainability & Environmental Resources  
Shannon Moore, Manager***

30 North Market Street  
Frederick, Maryland 21701  
[www.FrederickCountyMD.gov](http://www.FrederickCountyMD.gov)

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David P. Gray  
Kirby Delauter

Lori L. Depies, CPA,  
*County Manager*

**MEMORANDUM**

**DATE:** February 27, 2013

**To:** Donnie Crum, Assistant Superintendent, Highway Operations  
Gale Reeder, District 3 Foreman, Highway Operations

**From:** Jessica H. Seipp, Project Manager, Frederick County Office of Sustainability and Environmental Resources (OSER) *JHS*

**Re:** Frederick County Highway Operations - Myersville Facility, 02SW2285, Comprehensive Annual Inspection

Staff from Frederick County's Office of Sustainability and Environmental Resources (OSER) and its consultant Versar, Inc. completed a Comprehensive Annual Inspection of the Frederick County Highway Operations - Myersville Facility on December 6, 2012. This Comprehensive Annual Inspection was conducted in order to comply with regulations in the facility's General Permit for Discharges from Stormwater Associated with Industrial Activities (02SW2285). Mr. Donnie Crum, Mr. Gale Reeder, and Mr. Tom Green participated in the inspection.

Included below are findings from the inspection that Highway Operations may want to consider prioritizing for corrective action. Attached is a copy of the completed inspection form which includes detailed findings and additional recommended corrective actions. If you have any questions you may contact me at 301.600.1350 or [jseipp@frederickcountymd.gov](mailto:jseipp@frederickcountymd.gov).

Highway Operations should investigate how to include the private contractor who leases a portion of the facility for storage in the Stormwater Pollution Prevention Plan (SWPPP) process. If the contractor does not follow the facility's SWPPP, Highway Operations could be held responsible.

**Recommended Corrective Actions for Spill Prevention and Response -** The facility's General Permit and SWPPP require that steps are taken to prevent spills from occurring and in the event that they do occur, they are reported and cleaned up properly. There is evidence of spills/leaks from the hydraulic lines from snow plows and other hydraulically activated equipment stored in the pole barns. An SOP should be developed and implemented to ensure these lines are capped when disconnected and that any fluid discharged upon pressure release is captured and/or cleaned up. The floors of the pole barns should be cleaned of all old stains.

**Recommended Corrective Actions for Minimizing Exposure -** The facility's General Permit and SWPPP require that steps are taken to minimize the exposure of industrial activities to precipitation. Highway Operations should investigate the feasibility of installing secondary containment for the Caliber M1000 tank. If

secondary containment is not possible, an SOP should be developed for spill response in the instance that the tank ruptures and all contents are released.

**Recommended Corrective Actions for Employee Training** - At the time of the inspection, not all staff had received stormwater pollution prevention training. Highway Operations should ensure that all staff receive stormwater pollution prevention training.

Cc:

Thomas Meunier, Director, Division of Public Works

Bill Routzahn, Superintendent, Highway Operations

Eric E. Soter, Director, Frederick County Community Development Division

Shannon Moore, Manager, Frederick County Office of Sustainability and Environmental Resources (OSER)



Stormwater Industrial Facility Annual/Comprehensive Inspection Report

**SECTION A: GENERAL INFORMATION**

Facility Name: Frederick County Highway Operations - Myersville Facility

NPDES Permit Number: MDE Permit 02SW2285

Facility Address: 10917 Pleasant Walk Rd, Myersville, MD 21773

Date of Inspection: December 6, 2012

Start/End Time of Inspection: 8:05 AM -- 9:47 AM

Inspector's Name(s) and Contact Information:

Alexi Boado, Watershed Ecologist  
ABoado@versar.com  
(410) 740-6054  
Versar, Inc.  
9200 Rumsey Rd, Suite 100  
Columbia, MD 21045-1934

Jessica Seipp, Project Manager III  
JSeipp@frederickcountymd.gov  
(301) 600-1350  
Frederick County OSER  
30 North Market Street  
Frederick, MD 21701

Facility Representative(s) in Attendance and Contact Information:

Donnie Crum, Assistant Superintendent  
DCrum@frederickcountymd.gov  
(301) 600-1565  
Frederick County Highway Operations  
331 Montevue Lane  
Frederick, MD 21702

Gale Reeder, District 3 Foreman  
GReeder@frederickcountymd.gov  
(301) 293-1124  
Frederick County Highway Operations  
10917 Pleasant Walk Rd.  
Myersville, MD 21773

Tom Green, District 3 Assistant Foreman  
TGreen@frederickcountymd.gov  
(301) 293-1124  
Frederick County Highway Operations  
10917 Pleasant Walk Rd.  
Myersville, MD 21773

Weather Information: Weather at time of inspection? [CIRCLE ALL THAT APPLY]

☒ Clear

Cloudy

Rain

Sleet

Fog

Snow

High Winds

Other:

## SECTION B: REVIEW OF SWPPP

(Note: Per the regulations under the General Discharge Permit for Stormwater Associated with Industrial Activities [02-SW], only item #5 below is a requirement of the Annual Inspection.)

(1) Does the facility have a SWPPP in place?	<input checked="" type="radio"/> YES	<input type="radio"/> NO	Additional Comments/Notes
(a) If NO, provide a brief description explaining reason			
(2) Is the contact information on the cover page of the SWPPP up to date?	<input type="radio"/> YES	<input checked="" type="radio"/> NO	Additional Comments/Notes
(a) If NO, how does the information need to be updated?			
The Emergency Spill Response contractor list needs to be updated.			
(3) Is the Stormwater Pollution Prevention Team up to date?	<input checked="" type="radio"/> YES	<input type="radio"/> NO	Additional Comments/Notes
(a) If NO, how does this information need to be updated?			
Highway Operations should consider including a representative from the private company who leases a portion of this site on the Pollution Prevention Team so they are aware of their responsibilities for spill prevention, good housekeeping, and minimizing exposure.			
(4) Have conditions on-site changed since the last update of the SWPPP?	<input type="radio"/> YES	<input checked="" type="radio"/> NO	Additional Comments/Notes
(a) If YES, how does this information need to be updated?			
(5) Are the site map (Attachment B) and list of industrial activities (Section 2.1) up to date?	<input type="radio"/> YES	<input checked="" type="radio"/> NO	Additional Comments/Notes
(a) If NO, how does this information need to be updated?			
Some minor revisions to the site map were identified as a result of the inspection. All required changes have been noted and will be completed by OSER staff.			
(6) Is the SWPPP signed?	<input checked="" type="radio"/> YES	<input type="radio"/> NO	Additional Comments/Notes
If NO, contact the SWPPP team leader to have the document signed immediately.			

# Stormwater Industrial Facility Annual/Comprehensive Inspection Report

## SECTION C: REVIEW OF ROUTINE/QUARTERLY INSPECTION FORMS

(Note: Items reviewed below are a requirement of the facility's SWPPP. Per the regulations under the General Discharge Permit for Stormwater Associated with Industrial Activities [02-SW], they are not a requirement of the Annual Inspection)

(1) Have routine/quarterly inspections been completed?	<input checked="" type="radio"/> YES	<input type="radio"/> NO	Additional Comments/Notes
(a) If NO, provide a brief description explaining reason.			
(2) Have routine/quarterly inspection forms been filed with the SWPPP?	<input checked="" type="radio"/> YES	<input type="radio"/> NO	Additional Comments/Notes
(a) If NO, provide a brief description explaining reason.			
(3) Were any corrective actions or necessary maintenance requirements identified on the routine/quarterly inspection forms?	<input checked="" type="radio"/> YES	<input type="radio"/> NO	Additional Comments/Notes
(a) If YES, provide a brief description and indicate whether they were completed.			

## SECTION D: REVIEW OF SPILL RESPONSE FORMS

(Note: Items reviewed below are a requirement of the facility's SWPPP. Per the regulations under the General Discharge Permit for Stormwater Associated with Industrial Activities [02-SW], they are not a requirement of the Annual Inspection)

(1) Have any spills been reported for the site?	<input checked="" type="radio"/> YES	<input type="radio"/> NO	Additional Comments/Notes
(a) Provide a brief explanation.			
(2) If spills were reported, were the correct spill response procedures followed?	<input checked="" type="radio"/> YES	<input type="radio"/> NO	Additional Comments/Notes
(a) If NO, provide a brief description explaining reason.			

## SECTION E: EMPLOYEE TRAINING

(Note: Items reviewed below are a requirement of the facility's SWPPP. Per the regulations under the General Discharge Permit for Stormwater Associated with Industrial Activities [02-SW], they are not a requirement of the Annual Inspection)

(1) Have all employees completed the required employee training?	<input checked="" type="radio"/> YES	<input type="radio"/> NO	Additional Comments/Notes
(a) If NO, provide a brief description explaining reason.			

# Stormwater Industrial Facility Annual/Comprehensive Inspection Report

The foremen have received training however the rest of the crewmembers have not. Highway Operations will be conducting employee training for all general staff in the coming weeks.		
(2) If YES, are sign-in sheets and copies of the training curriculum included in the SWPPP?	<input checked="" type="radio"/> YES	NO
(a) If NO, provide a brief description why.		

## SECTION F: INSPECTION OF BMPs AND AREAS OF INDUSTRIAL ACTIVITIES

STORMWATER POND – CELL #1		Additional Comments/Notes
(1) Does the pond appear to be functioning properly?	<input checked="" type="radio"/> YES	NO
(2) Is there an excessive amount of litter in the pond?	<input checked="" type="radio"/> YES	<input checked="" type="radio"/> NO
(3) Does there appear to be a significant amount of sediment accumulated in the pond?	<input checked="" type="radio"/> YES	<input checked="" type="radio"/> NO
(4) If the pond has water, is there an excessive amount of algae present?	<input checked="" type="radio"/> YES	<input checked="" type="radio"/> NO
(5) Does the inlet(s) have dry weather flow <sup>1</sup> ?	<input checked="" type="radio"/> YES	<input checked="" type="radio"/> NO
(6) If the pond has water, is there an odor?	<input checked="" type="radio"/> YES	<input checked="" type="radio"/> NO
(7) If the pond has water, is the water discolored?	<input checked="" type="radio"/> YES	<input checked="" type="radio"/> NO
(8) Is there evidence of erosion present on the banks of the pond?	<input checked="" type="radio"/> YES	<input checked="" type="radio"/> NO
(9) Is there any other condition that appears to be abnormal?	<input checked="" type="radio"/> YES	<input checked="" type="radio"/> NO
(a) If YES is circled for any of the questions (2-9) above, provide a description of the condition, corrective action necessary and photo (if possible).		
<sup>1</sup> Dry weather flow = presence of flowing water when it has not rained within the last 48 hours.		

STORMWATER POND – CELL #2		Additional Comments/Notes
(1) Does the pond appear to be functioning properly?	<input checked="" type="radio"/> YES	NO
(2) Is there an excessive amount of litter in the pond?	<input checked="" type="radio"/> YES	<input checked="" type="radio"/> NO
(3) Does there appear to be a significant amount of sediment accumulated in the pond?	<input checked="" type="radio"/> YES	<input checked="" type="radio"/> NO

# Stormwater Industrial Facility Annual/Comprehensive Inspection Report

(4) If the pond has water, is there an excessive amount of algae present?	YES	<input type="radio"/> NO	
(5) Does the inlet(s) have dry weather flow <sup>1</sup> ?	YES	<input type="radio"/> NO	
(6) If the pond has water, is there an odor?	YES	<input type="radio"/> NO	
(7) If the pond has water, is the water discolored?	YES	<input type="radio"/> NO	
(8) Is there evidence of erosion present on the banks of the pond?	YES	<input type="radio"/> NO	
(9) Is there any other condition that appears to be abnormal?	YES	<input type="radio"/> NO	
(a) If YES is circled for any of the questions (2-9) above, provide a description of the condition, corrective action necessary and photo (if possible).			
<sup>1</sup> Dry weather flow = presence of flowing water when it has not rained within the last 48 hours.			

STORMWATER POND – CELL #3			Additional Comments/Notes
(1) Does the pond appear to be functioning properly?	<input checked="" type="radio"/> YES	<input type="radio"/> NO	
(2) Is there an excessive amount of litter in the pond?	YES	<input type="radio"/> NO	
(3) Does there appear to be a significant amount of sediment accumulated in the pond?	YES	<input type="radio"/> NO	
(4) If the pond has water, is there an excessive amount of algae present?	YES	<input type="radio"/> NO	
(5) Does the inlet(s) have dry weather flow <sup>1</sup> ?	YES	<input type="radio"/> NO	
(6) If the pond has water, is there an odor?	YES	<input type="radio"/> NO	
(7) If the pond has water, is the water discolored?	YES	<input type="radio"/> NO	
(8) Is there evidence of erosion present on the banks of the pond?	YES	<input type="radio"/> NO	
(9) Is there any other condition that appears to be abnormal?	YES	<input type="radio"/> NO	
(a) If YES is circled for any of the questions (2-9) above, provide a description of the condition, corrective action necessary and photo (if possible).			
<sup>1</sup> Dry weather flow = presence of flowing water when it has not rained within the last 48 hours.			

DRAINAGE SWALES			Additional Comments/Notes
(1) Do the drainage swales appear to be functioning properly?	<input checked="" type="radio"/> YES	<input type="radio"/> NO	
(2) Is there an excessive amount of litter in the drainage swales?	YES	<input type="radio"/> NO	
(3) Does there appear to be a significant amount of sediment accumulated in the drainage swales?	YES	<input type="radio"/> NO	

# Stormwater Industrial Facility Annual/Comprehensive Inspection Report

(4) Is there dry weather flow <sup>1</sup> in the drainage swales?	YES	<input type="radio"/> NO
(5) If the drainage swales have water, is there an odor?	YES	<input type="radio"/> NO
(6) If the drainage swales have water, is the water discolored?	YES	<input type="radio"/> NO
(7) Is there evidence of erosion along the drainage swales?	YES	<input type="radio"/> NO
(8) Is there any other condition that appears to be abnormal?	YES	<input type="radio"/> NO
(a) If YES is circled for any of the questions (2-9) above, provide a description of the condition, corrective action necessary and photo (if possible).		
<sup>1</sup> Dry weather flow = presence of flowing water when it has not rained within the last 48 hours.		

SUPER SILT FENCE		Additional Comments/Notes
(1) Is silt fence in place?	<input type="radio"/> YES <input type="radio"/> NO	
(2) Is the silt fence properly installed?	<input type="radio"/> YES <input type="radio"/> NO	
(3) Does the silt fence require any maintenance?	<input type="radio"/> YES <input type="radio"/> NO	
(a) If YES, provide a description of the condition and any required corrective actions below.		
There is a section along the bottom that is torn and should be repaired.		

OUTDOOR DUMPSTERS		Additional Comments/Notes
(1) Do dumpsters appear to be leaking (i.e. is there evidence of staining on the ground)?	YES <input type="radio"/> NO <input type="radio"/>	
(2) Are dumpster lids closed?	<input type="radio"/> YES <input type="radio"/> NO	
(3) Are dumpster lids in good condition?	<input type="radio"/> YES <input type="radio"/> NO	
(4) Are dumpsters in good condition?	<input type="radio"/> YES <input type="radio"/> NO	
(5) Has all waste been disposed of properly?	<input type="radio"/> YES <input type="radio"/> NO	

POLE BARN/VEHICLE STORAGE BUILDING		Additional Comments/Notes
(1) Is there evidence of spills/leaks (i.e. staining or absorbent materials on the ground)?	<input type="radio"/> YES <input type="radio"/> NO (If NO, skip to #2)	
(a) Was the source of the spill identified?	YES <input type="radio"/> NO <input type="radio"/>	

# Stormwater Industrial Facility Annual/Comprehensive Inspection Report

(b) Was the source of the spill eliminated	YES	<input checked="" type="radio"/> NO	<p>There is staining on the floor of the pole barn, evidence of old spills. All spills require proper spill cleanup and reporting. There is evidence of spills/leaks from hydraulic lines from the snow plows and other hydraulically activated equipment. An SOP should be developed and implemented to ensure these lines are capped when disconnected and that any fluid discharged upon pressure release is captured and/or cleaned up. Floors should be cleaned of all old stains.</p>
(c) Was a spill form completed?	YES	<input checked="" type="radio"/> NO	
(d) Was the spill reported?	YES	<input checked="" type="radio"/> NO	
(e) Was the spill cleaned up properly?	YES	<input checked="" type="radio"/> NO	
<p>- If <b>NO</b> is circled for any of the questions (a-e) above, provide an explanation of why</p>			
(2) Are any materials, drums, or containers exposed to precipitation?	YES	<input checked="" type="radio"/> NO	
(a) If <b>YES</b> , are they sealed and labeled properly?	YES	NO	
(3) Are spill kits available for use?	<input checked="" type="radio"/> YES	NO	
(a) If <b>YES</b> , do the spill kits need to be restocked?	YES	<input checked="" type="radio"/> NO	
(4) Are all drums stored in secondary containment?	<input checked="" type="radio"/> YES	NO	
(5) Are all containers properly sealed and labeled?	<input checked="" type="radio"/> YES	NO	
(6) Are materials stored in an orderly fashion?	<input checked="" type="radio"/> YES	NO	

SALT BARN			Additional Comments/Notes
(1) Is there evidence of spills/leaks (i.e. staining or absorbent materials on the ground)?	YES (If NO, skip to #2)	<input checked="" type="radio"/> NO	
(a) Was the source of the spill identified?	YES	NO	<p>Highway Operations should investigate the feasibility of installing secondary containment for the Caliber M1000 tank. If secondary containment is not possible, an SOP should be developed for spill response if the tank were ruptured and all contents were released.</p>
(b) Was the source of the spill eliminated?	YES	NO	
(c) Was a spill form completed?	YES	NO	
(d) Was the spill reported?	YES	NO	
(e) Was the spill cleaned up properly?	YES	NO	
<p>- If <b>NO</b> is circled for any of the questions (a-e) above, provide an explanation of why</p>			
(2) Are Caliber M1000 storage tanks protected and in good condition?	<input checked="" type="radio"/> YES	NO	
(1) Is all salt and Anti-Skid aggregate contained within the salt barn?	<input checked="" type="radio"/> YES	NO	

# Stormwater Industrial Facility Annual/Comprehensive Inspection Report

(2) Has the lot been swept since the last inspection?	<input checked="" type="radio"/> YES	<input type="radio"/> NO
- If YES, please provide date: Late November, 2012		

STORAGE SHED		Additional Comments/Notes
(1) Is there evidence of spills/leaks (i.e. staining or absorbent materials on the ground)?	YES (If NO, skip to #2)	Re #5 – The fuel tanks on the portable welder and cement mixer should be labeled with their maximum capacity.
(a) Was the source of the spill identified?	YES	
(b) Was the source of the spill eliminated?	YES	
(c) Was a spill form completed?	YES	
(d) Was the spill reported?	YES	
(e) Was the spill cleaned up properly?	YES	
- If NO is circled for any of the questions (a-e) above, provide an explanation of why		
(2) Are any materials, drums, or containers exposed to precipitation?	YES	
(a) If YES, are they sealed and labeled properly?	YES	
(3) Are spill kits available for use?	YES	
(a) If YES, do the spill kits need to be restocked?	YES	
(4) Are all drums stored in secondary containment?	YES	
(5) Are all containers properly sealed and labeled?	YES	
(6) Are materials stored in an orderly fashion?	YES	

STEEL STORAGE SHED (between salt barn and shop)		Additional Comments/Notes
(1) Is there evidence of spills/leaks (i.e. staining or absorbent materials on the ground)?	YES (If NO, skip to #2)	Re #3 – Secondary containment should be provided for the fuel canisters stored in this shed.
(a) Was the source of the spill identified?	YES	
(b) Was the source of the spill eliminated?	YES	
(c) Was a spill form completed?	YES	
(d) Was the spill reported?	YES	
(e) Was the spill cleaned up properly?	YES	
- If NO is circled for any of the questions (a-e) above, provide an explanation of why		



# Stormwater Industrial Facility Annual/Comprehensive Inspection Report

(2) Are any materials, drums, or containers exposed to precipitation?	YES	<input checked="" type="radio"/> NO	
(a) If YES, are they sealed and labeled properly?	YES	<input type="radio"/> NO	
(3) Are materials stored in secondary containment?	YES	<input checked="" type="radio"/> NO	
(4) Are all containers properly sealed and labeled?	<input checked="" type="radio"/> YES	<input type="radio"/> NO	
(5) Are materials stored in an orderly fashion?	<input checked="" type="radio"/> YES	<input type="radio"/> NO	

STOCKPILES/HEAVY MACHINERY STORAGE AREA		Additional Comments/Notes
(1) Is there evidence of spills/leaks from heavy machinery (i.e. staining or absorbent materials on the ground)?	YES <input type="radio"/> NO <input checked="" type="radio"/> (If NO, skip to #2)	The white plastic portable liquids tank needs a label indicating its maximum capacity.
(a) Was the source of the spill identified?	YES <input type="radio"/> NO <input type="radio"/>	
(b) Was the source of the spill eliminated?	YES <input type="radio"/> NO <input type="radio"/>	
(c) Was a spill form completed?	YES <input type="radio"/> NO <input type="radio"/>	
(d) Was the spill reported?	YES <input type="radio"/> NO <input type="radio"/>	
(e) Was the spill cleaned up properly?	YES <input type="radio"/> NO <input type="radio"/>	
- If NO is circled for any of the questions (a-e) above, provide an explanation of why		
(2) Are all stockpiles contained within the concrete block area?	<input checked="" type="radio"/> YES <input type="radio"/> NO	
(3) Are spill kits available for use?	<input checked="" type="radio"/> YES <input type="radio"/> NO	
(a) If YES, do the spill kits need to be restocked?	YES <input type="radio"/> NO <input checked="" type="radio"/>	
(4) Are materials stored in an orderly fashion?	<input checked="" type="radio"/> YES <input type="radio"/> NO	

STUMP/MULCH STOCKPILES		Additional Comments/Notes
(1) Is all material stockpiled so that stormwater is carried towards the silt fence?	<input checked="" type="radio"/> YES <input type="radio"/> NO	
(2) Are materials stored in an orderly fashion?	<input checked="" type="radio"/> YES <input type="radio"/> NO	

## SECTION G: GENERAL INSPECTION FINDINGS

(1) As part of this comprehensive site inspection, did you inspect all potential pollutant sources, including areas where industrial activity may be exposed to stormwater?	<input checked="" type="radio"/> YES	<input type="radio"/> NO	Additional Comments/Notes
(1) If NO, describe why not			
(2) Did this inspection identify any stormwater or non-stormwater outfalls not previously identified in the SWPPP?	YES	<input checked="" type="radio"/> NO	Additional Comments/Notes
(b) If YES, for each location, describe the sources of those stormwater and non-stormwater discharges and any associated control measures in place			
(3) Did this inspection identify any sources of stormwater or non-stormwater discharges not previously identified in the SWPPP?	YES	<input checked="" type="radio"/> NO	Additional Comments/Notes
(b) If YES, describe the sources of stormwater or non-stormwater pollutants expected to be present in these discharges, and any control measures in place			
(4) Did you review stormwater monitoring data as part of this inspection to identify potential pollutant hotspots?	YES	<input checked="" type="radio"/> N/A	Additional Comments/Notes
(b) If YES, summarize the findings of that review and describe any additional inspection activities resulting from this review			
(5) Describe any evidence of pollutants entering the drainage system or discharging to surface waters, and the condition of and around outfalls, including flow dissipation measures to prevent scouring	Additional Comments/Notes		
There was no evidence of pollutants entering the drainage system or discharging to surface waters. The on-site stormwater management ponds and drainage swales are in good condition.			
(6) Have you taken or do you plan to take any corrective action, as specified in the permit, since your last annual report submission (or since you received authorization to discharge under this permit if this is your first annual report), including any correcting actions identified as a result of	<input checked="" type="radio"/> YES	<input type="radio"/> NO	Additional Comments/Notes

# Stormwater Industrial Facility Annual/Comprehensive Inspection Report

this annual comprehensive site inspection?		
(a) If YES, please provide a description  This is the first annual inspection for this property so there are no corrective actions required from previous inspections. Recommended corrective actions are detailed on the inspection form and in the attached cover memo.		



***ATTACHMENT F – Record of Significant Spills and Leaks,  
and Spill/Release Incident Forms***

Send a copy of all completed spill forms to the Assistant Superintendent.

Completed spill forms shall be filed in this SWPPP and maintained as long as Highway Operations operates the facility.

Copies of all forms and record keeping documents must be submitted to Jessica Seipp with WMS by December 31<sup>st</sup> of each year. She can be reached at 301.600.1350 or [jseipp@frederickcountymd.gov](mailto:jseipp@frederickcountymd.gov).

## SPILL NOTIFICATION FORM

<b>Part A: Basic Spill Data</b>			
<b>Type of Spilled Substance:</b>	<b>Notification Person:</b>		
<b>Quantity Released:</b>	<b>Spill Date and Time:</b>		
<b>Location of Spill:</b>	<b>Discovery Date and Time:</b>		
	<b>Spill Duration:</b>		
<b>Facility Name &amp; Location:</b> Frederick County Highway Ops. Myersville Facility 10917 Pleasant Walk Rd Myersville, MD 21773	<b>Release to:</b> <input type="checkbox"/> air <input type="checkbox"/> water <input type="checkbox"/> ocean <input type="checkbox"/> well <input type="checkbox"/> soil <input type="checkbox"/> sewer <input type="checkbox"/> containment <input type="checkbox"/> other: _____		
<b>Owner/Company Name:</b> Frederick County DPW Frederick County Commissioners 12 E. Church St. Frederick, MD 21701	<b>Telephone:</b> Facility: (301) 293-1124		
<b>Nature of spill and any environmental or health effects:</b> <input type="checkbox"/> Injuries <input type="checkbox"/> Fatalities			
<b>Part B: Notification Checklist</b>			<b>Items from Spill Kit Used</b>
<b>Spill Type</b>	<b>Notification Date and Time</b>	<b>Name of Person that Received Call</b>	
<b>Spill is any amount of product:</b>			<b>Does Spill Kit need re-filled</b>
Gale Reeder (301) 293-1124 or (240) 674-1124			
Maryland Department of the Environment (24 hours) 866-633-4686 or (410) 974-3551			
<b>Spill reaches groundwater or surface water:</b>			
Maryland Department of the Environment (24 hours) 866-633-4686 or (410) 974-3551			
National Response Center 1-800-424-8802 Region III Response Center 215-814-9016			
<b>Spill greater than 1,000-gallons or second event of greater than 42 gallons released in 12-month period</b>			
William C. Early, Acting Regional Administrator U.S. EPA Region III 1650 Arch St (3PM52) Philadelphia, PA 19103-2029 (215) 814-5000 or (800) 438-2474			





MARYLAND DEPARTMENT of the ENVIRONMENT  
1800 WASHINGTON BOULEVARD  
BALTIMORE, MARYLAND. 21230  
(410) 537-3000  
1-800-633-6101 (within Maryland)  
<http://www.mde.state.md.us>



State of Maryland  
Department of the Environment  
Emergency Response Division  
1800 Washington Blvd. Suite #105  
Baltimore, Maryland. 21230-1721




24 HOUR SPILL REPORTING  
(Toll Free) 1-866-633-4686  
EMERGENCY RESPONSE OFFICE  
(410) 537-3975  
RESPONSE OFFICE FACSIMILE  
(410) 537-3932

PURSUANT TO THE PROVISIONS OF STATE LAW AND REGULATION: (COMAR 26.10.01.03) "A PERSON DISCHARGING OR PERMITTING THE DISCHARGE OF OIL, OR WHO EITHER ACTIVELY OR PASSIVELY PARTICIPATES IN THE DISCHARGE OR SPILLING OF OIL, EITHER FROM A LAND BASED INSTALLATION, INCLUDING VEHICLES IN TRANSIT, OR FROM ANY VESSEL SHIP OR BOAT OF ANY KIND, SHALL REPORT THE INCIDENT IMMEDIATELY TO THE ADMINISTRATION." "THE REPORT OF AN OIL SPILL OR DISCHARGE SHALL BE MADE TO THE ADMINISTRATION IMMEDIATELY, BUT NOT LATER THAN TWO HOURS AFTER DETECTION OF THE SPILL." \*\*\* **FIRE DEPARTMENT PERSONNEL, SEE REVERSE** \*\*\*

ADC Map Coord \_\_\_\_\_ Date of spill: Mo. \_\_\_\_ / Day \_\_\_\_ / Yr. 20 \_\_\_\_ Time of spill: \_\_\_\_ : \_\_\_\_ : \_\_\_\_ Hours (24 hour clock)  
Fire Department Report No.: \_\_\_\_\_ Police Department Report No.: \_\_\_\_\_

Location of spill - Street address: _____ City / Town _____ MD County _____ Zip _____	Product Name: _____ (Indicate Gasoline, Diesel, Heating Oil, Chemical Name or UN ID etc.) Container Type: _____ (Indicate AST, UST, Transformer, Saddle Tank, Drum etc.)	<b>Capacity</b> of Vessel, Vehicle or Tank: _____ Gallons <b>Amount IN</b> Vessel, Vehicle or Tank: _____ Gallons Estimated <b>Amount Spilled:</b> _____ Gallons
--	---	--

Transportation Incident: _____ (Indicate Type of Auto, Truck, Train, Aircraft or Watercraft etc.) Fixed Facility Incident: _____ (Indicate Type of Industrial, Commercial, Residential etc.)	<input type="checkbox"/> Contained on Land <input type="checkbox"/> Entered Storm Drain or Ditch <input type="checkbox"/> Entered Sanitary Sewer <input type="checkbox"/> Is Below Ground <input type="checkbox"/> Entered surface waters: _____ 	Vehicle Tag Number and State: _____ DOT or ICC MC Number: _____ Hull Numbers and Name: _____
---	--	--

<b>Person(s) Responsible for Spill:</b> (Driver if Vehicle) Name: _____ Address: _____ City/State: _____ Zip: _____ Phone: _____ Drivers Lic.No. _____ State: _____	<b>Company Responsible for Spill:</b> (N/A if private citizen.) Name: _____ Address: _____ City/State: _____ Zip: _____ Phone: _____ Fed. Employer ID No. _____
--	--

<b>Cause of Spill:</b> <input type="checkbox"/> Motor Vehicle Accident <input type="checkbox"/> Personnel Error/Vandalism <input type="checkbox"/> Tank/Container/Pipe Leak <input type="checkbox"/> Mechanical Failure <input type="checkbox"/> Transfer Accident <input type="checkbox"/> _____	<b>Identify All Groups that Participated in Spill Mitigation:</b> <input type="checkbox"/> Responsible Party <input type="checkbox"/> MDE ERD # _____ # _____ <input type="checkbox"/> Federal : _____ <input type="checkbox"/> State : _____ <input type="checkbox"/> Local : _____ <input type="checkbox"/> Contractor: _____	<b>Materials used by You to contain/clean-up spill:</b> Sorbent Dust: _____ Bags Sorbent Pads: _____ each or bales Sorbent Booms: _____ each or bales Sorbent Sweeps: _____ each or bales Overpack Drums : _____ ea. Steel or Poly Other: _____
---	--	---

Responsible Party : Describe circumstances contributing to the spill. (Additional space on back) [Optional for FD or Gov't Personnel]


Responsible Party : Describe Containment, Removal and Clean-up operations, including disposal. (Additional space on back) [Optional for FD or Gov't Personnel]


Responsible Party : Procedures, Methods and Precautions instituted to prevent recurrence of the spill. (Additional space on back) [Optional for FD or Gov't Personnel]


THE UNDERSIGNED CERTIFIES THAT THE INFORMATION PROVIDED IS TRUE AND CORRECT TO THE BEST OF HIS OR HER KNOWLEDGE AT THE TIME THE REPORT WAS COMPLETED.  
**Print Name:** \_\_\_\_\_ **Company or Fire Department:** \_\_\_\_\_  
**Address :** \_\_\_\_\_ **City / State / Zip** \_\_\_\_\_  
**Telephone** \_\_\_\_\_ **Signature** \_\_\_\_\_

Print Name: \_\_\_\_\_ Company or Fire Department: \_\_\_\_\_  
Address : \_\_\_\_\_ City / State / Zip \_\_\_\_\_  
Telephone \_\_\_\_\_ Signature \_\_\_\_\_

***ATTACHMENT G – Records of Training Curriculum and  
Student Attendance Forms***

Signed student training attendance forms shall be filed in this SWPPP and maintained as long as Highway Operations operates the facility.

Copies of all forms and record keeping documents must be submitted to Jessica Seipp with WMS by December 31<sup>st</sup> of each year. She can be reached at 301.600.1350 or [jseipp@frederickcountymd.gov](mailto:jseipp@frederickcountymd.gov).

**STORMWATER POLLUTION PREVENTION PLAN (SWPPP) TRAINING COURSE  
SIGN IN SHEET**

**(Date/Time)**\_\_\_\_\_

	<b>PRINT NAME</b>	<b>JOB TITLE</b>	<b>FACILITY/LOCATION</b>	<b>SIGNATURE</b>
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				

**STORMWATER POLLUTION PREVENTION PLAN (SWPPP) TRAINING COURSE  
SIGN IN SHEET**

**(Date/Time)** \_\_\_\_\_

	PRINT NAME	JOB TITLE	FACILITY/LOCATION	SIGNATURE
15				
16				
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26				

## ANNUAL STORMWATER POLLUTION PREVENTION PLANNING (SWPPP) TRAINING



June 2012

Advanced Module



## Why do you have to be here?



- Because your facility operates under a **General Discharge Permit for Stormwater Associated with Industrial Activities**.
  - "General Discharge Permit"

2

## Why do you have to be here?



More specifically:

- Under 2d of **Section E** of Frederick County's **Municipal Separate Storm Sewer System (MS4)** Permit the County must identify all county-owned facilities requiring a **NPDES discharge permit** and submit documentation that a permit has been obtained for each facility.

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## 2 options for County Ind. Facilities



- All County owned "industrial facilities" must submit a Notice of Intent (NOI) that a permit has been applied for or apply for **No Exposure Certification**
- All permitted facilities not eligible for No Exposure Certification must then develop a **Stormwater Pollution Prevention Plan (SWPPP)**.

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## No Exposure?

- No exposure of any of the operations at the facility to PRECIPITATION.

C. Exposure Checklist		
Are any of the following materials or activities exposed to precipitation, now or in the foreseeable future? (Please check either "Yes" or "No" in the appropriate box.) If you answer "Yes" to any of these questions (1) through (8), you are not eligible for the no exposure exclusion.		
1. Using, storing or cleaning industrial machinery or equipment, and areas where residuals from using, storing or cleaning industrial machinery or equipment remain and are exposed to storm water	Yes	No
2. Materials or residuals on the ground or in storm water intakes from spills/leaks	<input type="checkbox"/>	<input type="checkbox"/>
3. Materials or products from past industrial activity	<input type="checkbox"/>	<input type="checkbox"/>
4. Material handling equipment	<input type="checkbox"/>	<input type="checkbox"/>
5. Materials or products during loading/unloading or transporting activities	<input type="checkbox"/>	<input type="checkbox"/>
6. Materials or products stored outdoors (except final products intended for outside use [e.g., new cars] where exposure to storm water does not result in the discharge of pollutants)	<input type="checkbox"/>	<input type="checkbox"/>
7. Materials contained in open, deteriorated or leaking storage drums, barrels, tanks, and similar containers	<input type="checkbox"/>	<input type="checkbox"/>
8. Materials or products handled/stored on roads or railways owned or maintained by the discharger	<input type="checkbox"/>	<input type="checkbox"/>
9. Waste material (except waste in covered, non-leaking containers)	<input type="checkbox"/>	<input type="checkbox"/>
10. Application or disposal of process wastewater (unless otherwise permitted)	<input type="checkbox"/>	<input type="checkbox"/>
11. Particulate matter or visible deposits of residuals from roof stacks and/or vents not otherwise regulated (i.e., under an air quality control permit) and evident in the storm water outflow	<input type="checkbox"/>	<input type="checkbox"/>

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## Industrial Activities? Who me!?

- transportation facilities
  - (but only those who do vehicle maintenance)
- sewage treatment plants designed for over 1.0 MGD
- landfills
- recycling facilities
- etc.
- Considered INDUSTRIAL....

6

## 14 Industrial Frederick County Facilities

- 14 county facilities covered by a permit
- 1 was able to get no-exposure certified.
  - Green Valley Fire-Rescue Station
- The remaining 13 have developed SWPPPs
  - **Fleet Maintenance:** LEC, TransIT, FCPS Hayward Rd, 331 Montevue,
    - Satellite yards: Johnsville, Thurmont, Urbana, Myersville, Jefferson
  - **WWTPs:** Ballenger Creek, New Market, Jefferson
  - **Landfill:** Reichs Ford

7

## Versar's 2011-2012 Audit



- 6 month audit to identify all County industrial facilities & get them into compliance
- Versar and Sustainability & Environmental Resources Office wrote 13 SWPPPs.
- Culminated in an EPA audit in May!

8

## What is stormwater?



- Stormwater is defined as precipitation runoff, surface runoff and drainage, street runoff and snow melt runoff.

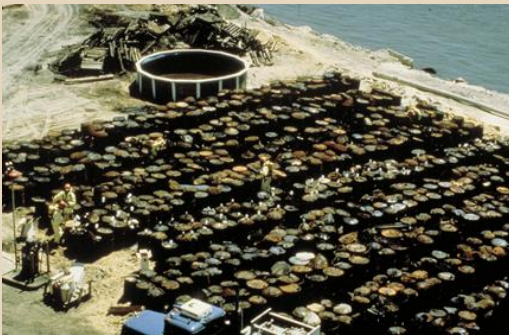
11

## What's Wrong With This Picture?



10

## What's Wrong With This Picture?



11

## Typical Stormwater Pollutants

- Petroleum (oil, grease)
- Cooking grease/oils
- Sediment (soil)
- Salt
- Trash and debris
- De-icing fluids and coolants (glycols)
- Fertilizers, Herbicides, and Pesticides
- Fecal bacteria (pet & human feces)

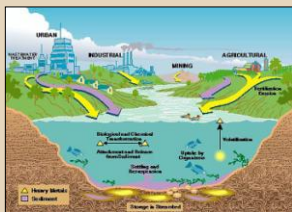


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## POTENTIAL EFFECTS

- Human health
  - Direct ingestion during recreation activities
  - Food chain
- Environmental
  - Benthic invertebrates
  - Fish
  - Birds
- Aesthetics
  - Odor
  - Visual (e.g., scums, sheens, etc.)
  - Garbage



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## 6 Typical Pollution Sources at Industrial Facilities

1. Loading and Unloading Operations
2. Outdoor Storage
3. Outdoor Process Activities
4. Dust or Particulate Generating Processes
5. Illicit Connections and Non-Stormwater Discharges
6. Waste Management

-EPA

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Uh oh!

Forklift + distracted driver + 55 gallon drum = STORMWATER POLLUTION



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## ENVIRONMENTAL REGULATIONS



16

## Acronyms

- MS<sub>4</sub> = Municipal Separate Storm Sewer System
- NPDES = National Pollutant Discharge Elimination System

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## Municipal Separate Storm Sewer System

- An MS<sub>4</sub> is a conveyance or system of conveyances that is:
  - Owned by a state, city, town, village, or other public entity that discharges to waters of the U.S.;
  - Designed or used to collect or convey stormwater (including storm drains, pipes, ditches, etc.);
  - Not a combined sewer; and
  - Not part of a Publicly Owned Treatment Works (sewage treatment plant).

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## NPDES

- As authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program **controls water pollution** by regulating point sources that discharge pollutants into waters of the United States.
  - MS4s are considered point-sources of pollution!

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## It all starts with the CWA...sorta

- 1972 Federal Water Pollution Control Act (FWPCA)
  - No more point source pollution discharges into navigable waters!
  - It required permit to discharge wastes to public resources



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## The "real" Clean Water Act



- Law suit by NRDC against EPA in 1976 for lack of adequate effluent standards led to amendments to FWPCA

...which came to be known as the CWA of 1977!

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## CWA becomes WQA in 1987

- Water Quality Act (WQA)
- WQA treated certain **stormwater** discharges as "point source pollution"
- WQA established new schedules for **industrial & municipal stormwater** discharges into U.S. waters
- Establishes the **NPDES for stormwater**.

National Pollutant Discharge Elimination System



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- 1991 -The U.S. EPA starts its Stormwater Program
- 1992 – Industrial Facilities required to implement a stormwater pollution prevention program



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## Allowable Non-SW Discharges

(MD 2008 MSGP, 1.1.3)

The following are the non-stormwater discharges authorized under this permit, provided the non-stormwater component of your discharge is in compliance with Part 2.1.2.10:

- Discharges from fire-fighting activities;
- Fire hydrant flushings;
- Potable water, including water line flushings;
- Uncontaminated condensate from air conditioners, coolers, and other compressors and from the outside storage of refrigerated gases or liquids;
- Irrigation drainage;
- Landscape watering provided all pesticides, herbicides, and fertilizers are applied in accordance with the approved labeling;
- Pavement wash waters where no detergents are used and no toxic or hazardous materials have occurred (unless all are removed);
- Routine external building washdown that does not use process materials; and
- Uncontaminated ground water or spring water;
- Foundation or footing drains where flows are not contaminated with process materials; and
- Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of your facility, but not intentional discharges from the cooling tower (e.g., "piped" cooling tower blowdown or drains).

**NOT MANY!**

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Are you allowed to wash this equipment outdoors?

**POP QUIZ!**



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## Stormwater Pollution Prevention Plans (SWPPP)



Oil leak at TransIT



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## What is a SWPPP?



- SWPPP = Stormwater Pollution Prevention Plan
- A site-specific, written document that:
  1. Identifies potential sources of stormwater pollution at the industrial facility;
  2. Describes stormwater control measures that are used to reduce or eliminate pollutants in stormwater discharges from the industrial facility; &
  3. Identifies procedures the operator will use to comply with the terms and conditions of the General Discharge Permit.

**Sometimes called a "P2 Plan"**

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## TYPICAL ACTIVITIES SUBJECT TO OVERSIGHT

Anything done outside and exposed to rain/snow:

- Fueling
- Maintaining Vehicles and Equipment
- Washing Vehicles and Equipment
- Loading and Unloading Raw Materials
- Liquid Storage in Above-Ground Tanks
- Salt Storage
- Dumpsters
- Soil/compost/sand stockpiles



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## What is a SWPPP, really?

It's really 2 things

1. The paper PLAN
1. The implementation of procedures and behaviors



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## Stormwater Pollution Prevention Plan Includes:

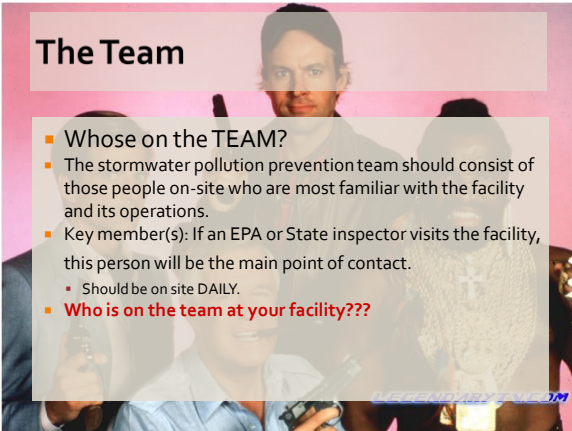
- Stormwater Pollution Prevention Team
- Site Plan
- Inventory Materials Exposed to Stormwater
- Implement Best Management Practices
- Employee Training Requirements
- Monthly Site Inspections
- Annual Site Assessment
- Spill Response Procedures



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## The Team

- Whose on the TEAM?
- The stormwater pollution prevention team should consist of those people on-site who are most familiar with the facility and its operations.
- Key member(s): If an EPA or State inspector visits the facility, this person will be the main point of contact.
  - Should be on site DAILY.
- Who is on the team at your facility???



## The Team

- Are you "qualified"?
- EPA defines qualified personnel as "those who possess the knowledge and skills to assess conditions and activities that could impact stormwater quality at your facility, and who can also evaluate the effectiveness of control measures."

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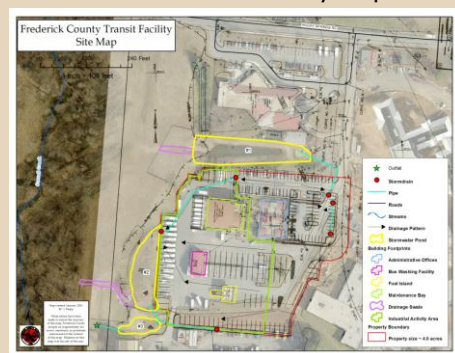
## The Team

- Each member of the stormwater pollution prevention team should have ready access to either an electronic or paper copy of applicable portions of the industrial stormwater general permit and the SWPPP.

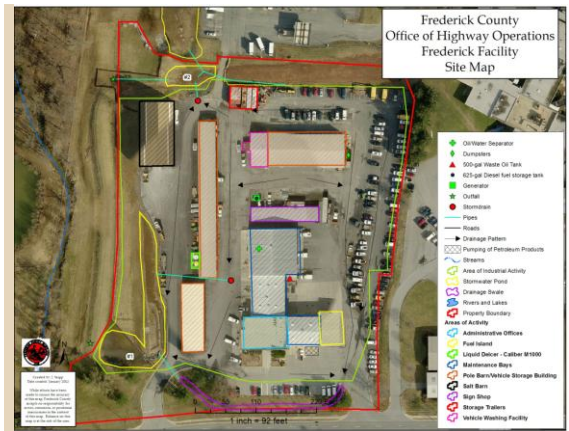
1.3 Stormwater Pollution Prevention Team	
Staff Names	Individual Responsibilities
SWPPP Team Leader #1 Bill Routhahn - Superintendent Highway Operations	<ul style="list-style-type: none"> <li>• SWPPP team leader and emergency contact, with focus on all vehicles and equipment stored and operated on site having to do with Highway Operations, including salt team activities.</li> </ul>
Donner Crum, Assistant Superintendent Highway Operations	<ul style="list-style-type: none"> <li>• Planning and supervision of all pollution prevention activities related to this SWPPP.</li> <li>• Custodian of SWPPP and adds records and updates as necessary as a result of major changes in the facility's design, construction, operation, or maintenance.</li> <li>• Does Routine and Annual Comprehensive site inspections.</li> </ul>

5

## The SPCC Plan Facility Map



36



## Materials Inventory

PRODUCT	BRAND
OMNI AE Hardener	PPG
OMNI Medium Reducer	PPG
OMNI Pak Master Blend	Sherrin Williams
Oxygen Tank	Energies
P68 Primer	IPS Corporation
Painters Touch Paint	Silco
Polyurethane Sealant	Sikaflex 1A
Propane	Berna-O-matic
PVC Pipe Cement	IPS Corporation
Quik Color	Rust-O-leum
Red Grease	Berkelbile Oil
Romex MP Grease	ExxonMobil

(1) 275-gallon automotive transmission (ATF) fluid tank (indoors at truck repair shop)  
 (1) 275-gallon new motor oil tank (indoors at truck repair shop)  
 (1) 275-gallon hydraulic oil tank (indoors at truck repair shop)  
 (1) 250-gallon waste oil tank (inside light duty repair shop)  
 (1) 500-gallon used motor oil tank (outside of truck repair shop)  
 (1) 625-gallon diesel (outside of diesel generator)  
 (1) 8000-gallon Caliber magnesium chloride solution (outdoors adjacent to salt barn)  
 (1) 5000-gallon Caliber magnesium chloride solution (outdoors adjacent to salt barn)

38

## Typical Facility Best Management Practices (BMPs)

- Good Housekeeping
- Preventive Maintenance
- Visual Inspections
- Spill Prevention and Response
- Sediment and Erosion Control
- Management of Stormwater Runoff



39

## "Structural" BMPs

- Double-Walled Tanks
- Secondary Containment



40

## Good Housekeeping

1. EPA expects you to set an example for the private sector.
  2. EPA expects you to set an example for the private sector.
  3. EPA expects you to set an example for the private sector.
- Specific good housekeeping practices vary by facility...

41

## Good Housekeeping



- Regular pickup and disposal of waste materials and scrap equipment;
- Maintenance of clean work spaces;
- Routine inspections for leaks and of the condition of tanks, vehicles and containers;
- Routine inspections to make sure that industrial materials are properly stored and labeled;
- A schedule for sweeping paved areas and floors, including who will perform the sweeping (employee or contractor);
- The individual or position responsible for emptying drip pans placed beneath leaking equipment, valves, and fill lines.

42



## Employee Training

- All employees from a facility, once per year and all new hires upon entering workforce.

43

## Top 10 Common Compliance Failures at Industrial Facilities



44

1. No SWPPP
2. Control measures described in SWPPP not used
3. No SWPPP on-site
4. SWPPP not signed
5. Stormwater pollution prevention team not up-to-date
6. On-site staff not familiar with SWPPP
7. Improper collection of visual assessment samples.
8. Uncovered dumpsters
9. Poor employee/contract staff training
10. Inspection or monitoring records are not kept with the SWPPP



45

## PENALTIES

(2008 MD MSGP)



**Civil Penalties** Violations of permit conditions = fine of \$27,500 per day for each violation

### Criminal Penalties

- Any person who **negligently** violates...is subject to a fine of not less than \$2,500 - \$25,000 per day of violation, or by imprisonment for not more than one (1) year, or by both.
- Any person who **knowingly** violates...is subject to a fine of not less than \$5,000 - \$50,000 per day of violation, or by imprisonment for not more than three (3) years, or by both.
- Any person who **knowingly** violates...and who knows at that time that he thereby places another person in **imminent danger of death** or serious bodily injury, is subject to a fine of not more than \$250,000 or imprisonment of not more than fifteen (15) years, or both.
  - Corporation subject to fine of \$1 Million.

46

## Spill Response and Notification

47

1. Minor vs. Major Spills
2. Response and Notification



48

## Minor Spills

- Minor spills are considered to be those of **less than 5-gallons** which pose no significant harm to human health or the environment and have not entered the storm sewer system, stormwater pond, water body or the groundwater table.



49

## Minor Spill Response Procedures

- Stop leaks
  - Roll drums upright (hole pointing up)
  - Turn off process
  - Shut pipe valves
- Contain spills
  - Booms, pads, sand, dirt
- Divert runoff from spills away from storm drain inlets
- Patch leaks – temporary patch until a permanent solution is applied
- Recover/remove contaminated materials



50

## Minor Spill Notification

- All minor spills must be documented by the SWPPP Team members or other designated personnel using the Spill/Release Incident Form (Attachment F)
- Keep the original filled spill form in the SWPPP.
  - A copy of filled spill form must be sent to the Superintendent.
  - A copy of the filled spill form is sent to MDE.

51

## MDE Reporting Requirements

- COMAR 26.10.01.03
- All oil spills onto **land or water**, including oil spills from vehicles, ships, boats, or vessels of any kind, must be reported to MDE immediately by phone (but not later than **2 hours** after detection).
- MDE requires written report as well within 10 days of clean up.
- No volume threshold for reporting.

52

The form is titled 'Spill/Release Incident Form' and is part of the 'State of Maryland Department of the Environment Emergency Response Division'. It contains sections for:
 

- Location of Spill/Release:** Includes fields for City/Town, MD County, ZIP, and a detailed address.
- Cause of spill:** Includes fields for Date of spill, Time of spill, and a description of the incident.
- Detailed Description:** Includes fields for Product Name, Quantity, and a description of the spill.
- Signature:** Includes fields for the name and signature of the person reporting the spill.
- Notification Numbers:** Includes fields for the MDE notification number and the local emergency response number.
- Amount Spilled/Released:** Includes fields for the volume of the spill and the type of material.
- Cleanup Procedure:** Includes fields for the cleanup method and the person responsible for the cleanup.

53

## Major Spills

- Major** spill is considered an emergency. It is a spill that cannot be safely contained by staff or cleaned up and/or has made its way into the storm sewer system, stormwater pond, waterbody or groundwater table or is a threat to human health.

54

## Major Spill continued

1. The discharge is large enough to spread beyond the immediate discharge area;
2. The discharged material enters a storm drain or stream, lake;
3. The discharge requires special equipment or training to cleanup; and/or
4. The discharged material poses a hazard to human health or safety.



55

## CALL THE CONTRACTOR!

The county has a contract with the following emergency response contractors.

- **DFRS / Hazmat**  
911 or non-emergency#  
301-600-1603
- **FCC Environmental**  
6305 Lombard Street, Baltimore  
410-633-0606
- **Floyd E. Cline & Sons, Inc.**  
3434 Brethren Church Rd, Myersville  
301-293-2349



56

## Major Spill Notification

- All major spills must be documented by the Stormwater Pollution Prevention Team members or other designated personnel using the Spill/Release Incident Form (Attachment F)
- SWPPP team leader or whomever is on site will contact BOTH:

1.

• MARYLAND DEPARTMENT OF THE ENVIRONMENT  
• 1-(866) 633-4686, available on a 24-hour basis.

2.

• NATIONAL RESPONSE CENTER  
• 1-(800) 424-8802, available on a 24-hour basis.

- Keep original filled form in the SWPPP folder.
- A copy of filled form must be sent to the Superintendent.
- A copy is mailed to MDE within ten days.

57

## N.R.C. Oil Spill Reporting Requirements:

1. Violate applicable water quality standards;
2. Cause a film or "sheen" upon, or discoloration of the surface of the water or adjoining shorelines; or
3. Cause a sludge or emulsion to be deposited beneath the surface of the water or upon adjoining shorelines

- NRC is the federal government's centralized reporting center, which is staffed 24 hours per day by U.S. Coast Guard personnel.

58

## MDE Reporting Requirements

- All oil spills onto land or water, including oil spills from vehicles, ships, boats, or vessels of any kind, must be reported to MDE immediately (but not later than 2 hours after detection).
- MDE requires both verbal and written reports.
- No volume threshold mentioned.

59

Location of Spill/Release	<p>State of Maryland Department of the Environment Emergency Response Division 1001 Washington Blvd, Suite 400 Baltimore, Maryland 21201-2000 Phone: (410) 535-7300</p>	Notification Numbers
Cause of spill	<p>Location of spill: Street address: _____ City/Town: _____ County: _____ Zip: _____ Product Name: _____ Container Type: _____ Transportation Incident: _____ Spill Description: _____ Spill Date: _____ Spill Time: _____ Spill Volume: _____ Spill Type: _____ Spill Cause: _____ Spill Location: _____ Spill Status: _____ Spill Notes: _____</p>	Amount Spilled/Released
Detailed Description	<p>Responsible Party: _____ Responsible Person: _____ Responsible Phone: _____ Responsible Email: _____ Responsible Address: _____ Responsible City: _____ Responsible State: _____ Responsible Zip: _____ Responsible Title: _____ Responsible Signature: _____ Responsible Date: _____ Responsible Time: _____ Responsible Volume: _____ Responsible Type: _____ Responsible Cause: _____ Responsible Location: _____ Responsible Status: _____ Responsible Notes: _____</p>	Cleanup Procedure
Signature	<p>Signature: _____ Print Name: _____ Title: _____ Company: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Fax: _____ Email: _____ Website: _____ Other: _____</p>	

60



## 61

## 6

## 63

## 6

## 65

## 6

## SWPPP MONTHLY INSPECTIONS

67

## SWPPP ANNUAL INSPECTIONS

- Generic form currently being customized for each facility.
- More comprehensive than quarterly form inspection.
  - Might include:
    - Integrity testing of containment vessels with results documented.
    - Suggested modifications of behaviors or stormwater BMPs to better handle recurring spills
    - Updating SWPPP to reflect changes at facility, new buildings, new activities etc.

68

## SWPPP ANNUAL INSPECTIONS

- **Original stays on site in the SWPPP.**
- Copies of all forms and record keeping documents must be submitted to Jessica Seipp with WMS by December 31<sup>st</sup> of each year.
- She can be reached at 301.600.1350 or [jseipp@frederickcountymd.gov](mailto:jseipp@frederickcountymd.gov).

69

## RECORD KEEPING...



70

## Record Keeping

- Document your compliance!!!
  - permits,
  - inspections,
  - maintenance,
  - monitoring,
  - corrective actions,
  - spills,
  - secondary containment failures,
  - trainings & curriculum
- It all must go in the on-site SWPPP!

71

## Record Keeping

## Collage of Violations



## QUESTIONS AND ANSWERS?



74

THE END

75

## ANNUAL STORMWATER POLLUTION PREVENTION PLANNING (SWPPP) TRAINING



June 2012

All Employees



## Why do you have to be here?



- Because your facility operates under a ***General Discharge Permit for Stormwater Associated with Industrial Activities.***
  - "General Discharge Permit"

2

## Industrial Activities? Who me!?

- transportation facilities
  - (but only those who do vehicle maintenance)
- sewage treatment plants designed for over 1.0 MGD
- landfills
- recycling facilities
- etc.
- Considered INDUSTRIAL....mmhmm

3

## 14 Industrial Frederick County Facilities

- 14 county facilities covered by a permit
- 1 was able to get no-exposure certified.
  - Green Valley Fire-Rescue Station
- The remaining 13 have developed SWPPPs
  - **Fleet Maintenance:** LEC, TransIT, FCPS Hayward Rd, 331 Montevue,
    - Satellite yards: Johnsville, Thurmont, Urbana, Myersville, Jefferson
  - **WWTPs:** Ballenger Creek, New Market, Jefferson
  - **Landfill:** Reichs Ford

4

## What is stormwater?



- Stormwater is defined as precipitation runoff, surface runoff and drainage, street runoff and snow melt runoff.

## What's Wrong With This Picture?



6

## What's Wrong With This Picture?



7

## Typical Stormwater Pollutants

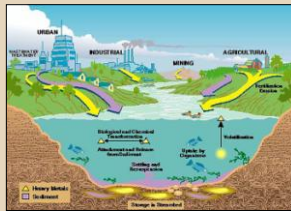
- Petroleum (oil, grease)
- Cooking grease/oils
- Sediment (soil)
- Salt
- Trash and debris
- De-icing fluids and coolants (glycols)
- Fertilizers, Herbicides, and Pesticides
- Fecal bacteria (pet & human feces)



8

## POTENTIAL EFFECTS

- Human health
  - Direct ingestion during recreation activities
  - Food chain
- Environmental
  - Benthic invertebrates
  - Fish
  - Birds
- Aesthetics
  - Odor
  - Visual (e.g., scums, sheens, etc.)
  - Garbage



9

## 6 Typical Pollution Sources at Industrial Facilities

1. Loading and Unloading Operations
2. Outdoor Storage
3. Outdoor Process Activities
4. Dust or Particulate Generating Processes
5. Illicit Connections and Non-Stormwater Discharges
6. Waste Management

-EPA

10

## Uh oh!

Forklift + distracted driver + 55 gallon drum = STORMWATER POLLUTION



331 Montevue



11

## Versar's 2011-2012 Audit



- 6 month audit to identify all County industrial facilities & get them into compliance
- Versar and Sustainability & Environmental Resources Office wrote 13 SWPPPs.
- Culminated in an EPA audit in May!

12



## Allowable Discharges from your facility:

(MD 2008 MSGP, 1.1.3)

The following are the non-stormwater discharges authorized under this permit, provided the non-stormwater component of your discharge is in compliance with Part 2.1.2.10:

- Discharges from fire-fighting activities;
- Fire hydrant flushings;
- Potable water, including water line flushings;
- Uncontaminated condensate from air conditioners, coolers, and other compressors and from the outside storage of refrigerated gases or liquids;
- Irrigation drainage;
- Landscape watering provided all pesticides, herbicides, and fertilizers are applied in accordance with the approved labeling;
- Pavement wash waters where no detergents are used and no toxic or hazardous materials have occurred (unless all such materials are removed);
- Routine external building washdown that does not use detergents;
- Uncontaminated ground water or spring water;
- Foundation or footing drains where flows are not contaminated with process materials; and
- Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of your facility, but not intentional discharges from the cooling tower (e.g., "piped" cooling tower blowdown or drains).

**NOT MANY!**

13

Are you allowed to wash this equipment outdoors?

**POP QUIZ!**



14

## Stormwater Pollution Prevention Plans (SWPPP)



Oil leak at TransIT



15

## What is a SWPPP?



- SWPPP = Stormwater Pollution Prevention Plan
- A site-specific, written document that:
  1. Identifies potential sources of stormwater pollution at the industrial facility;
  2. Describes stormwater control measures that are used to reduce or eliminate pollutants in stormwater discharges from the industrial facility; &
  3. Identifies procedures the operator will use to comply with the terms and conditions of the General Discharge Permit.

**sometimes called a "P2 Plan"**

16

## TYPICAL ACTIVITIES SUBJECT TO OVERSIGHT

Anything done outside and exposed to rain/snow:

- Fueling
- Maintaining Vehicles and Equipment
- Washing Vehicles and Equipment
- Loading and Unloading Raw Materials
- Liquid Storage in Above-Ground Tanks
- Salt Storage
- Dumpsters
- Soil/compost/sand stockpiles

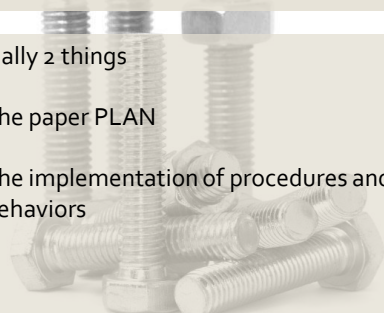


17

## What is a SWPPP, really?

It's really 2 things

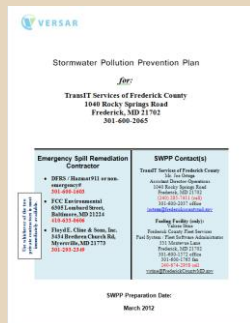
1. The paper PLAN
1. The implementation of procedures and behaviors



18

## Stormwater Pollution Prevention Plan Includes:

- Stormwater Pollution Prevention Team
- Site Plan
- Inventory Materials Exposed to Stormwater
- Implement Best Management Practices
  - Includes Good Housekeeping**
- Employee Training Requirements
- Monthly Site Inspections
- Annual Site Assessment
- Spill Response Procedures



19

## Good Housekeeping

- EPA expects you to set an example for the private sector.
- EPA expects you to set an example for the private sector.
- EPA expects you to set an example for the private sector.
- You are the government and you are expected to set an example for all to follow.

20

## Good Housekeeping



- Specific good housekeeping practices vary by facility...

Some examples:

- Regular pickup and disposal of waste materials and scrap equipment;
- Maintenance of clean and orderly work spaces;
- All small mechanical equipment and related chemicals necessary for their operation as well as small gasoline containers are kept indoors.
- Salt is kept within confines of salt barn at all times when active deliveries aren't being made or salt spreader loading isn't occurring.

21

## Good Housekeeping

- Place drip pans beneath leaking equipment, valves, and fill lines.
- Sediment and floatables on paved parking areas is regularly swept to minimize loading to stormwater infiltration pond.
- All used parts are drained of fluids prior to disposal.
- Batteries and other significant materials are stored inside.
- Staff clean up leaks, drips, and other spills using dry methods. NEVER WATER or DETERGENTS.
- Etc. etc. etc.

22

## Collage of Violations



## Employee Training

- All employees from a facility, once per year and all new hires upon entering workforce.

24

## Top 10 Common Compliance Failures at Industrial Facilities



25



1. No SWPPP
2. Control measures described in SWPPP not used
3. No SWPPP on-site
4. SWPPP not signed
5. Stormwater pollution prevention team not up-to-date
6. On-site staff not familiar with SWPPP
7. Improper collection of visual assessment samples.
8. Uncovered dumpsters
9. Poor employee/contract staff training
10. Inspection or monitoring records are not kept with the SWPPP

26

## Spill Response and Notification

27

### Chain of Command

- Report all spills or leaks to the SWPPP Team Leader immediately.
- You may not walk away from a spill or active leak.
- Your SWPPP Team Leader or one of the other SWPPP team members will fill out the spill reporting form with your input.
  - A SWPPP team leader will contact National Response Center and/or MDE to report spills.

28

### Chain of Command

- If you are the only one on-site during a MAJOR SPILL contact 911 or the Emergency Spill Contractors.
- You must remain on-site until the Fire Department, or MDE gives you permission to leave the site of the spill.

29

1. Minor vs. Major Spills
2. Response and Notification



30



## Minor Spills

- Minor spills are considered to be those of **less than 5-gallons** which pose no significant harm to human health or the environment and have not entered the storm sewer system, stormwater pond, water body or the groundwater table.



31

## Minor Spill Response Procedures

- Stop leaks
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- No volume threshold for reporting.

34

The form is titled 'Spill/Release Incident Form' and is part of the 'State of Maryland Department of the Environment Emergency Response Division'. It contains various fields for reporting a spill, including:
 

- Location of Spill/Release:** City/Town, MD County, ZIP, and a section for 'Transportation Incident'.
- Cause of spill:** A section for 'Cause of Spill' with checkboxes for 'Spill from Vehicle', 'Spill from Container', 'Spill from Pipeline', 'Spill from Other', and 'Spill from Unknown Source'.
- Detailed Description:** A section for 'Detailed Description' with checkboxes for 'Spill from Vehicle', 'Spill from Container', 'Spill from Pipeline', 'Spill from Other', and 'Spill from Unknown Source'.
- Signature:** A section for 'Signature' with a line for the signature and a line for the name.
- Notification Numbers:** A section for 'Notification Numbers' with a line for the number.
- Amount Spilled/Released:** A section for 'Amount Spilled/Released' with a line for the amount.
- Cleanup Procedure:** A section for 'Cleanup Procedure' with a line for the procedure.

35

## Major Spills

- Major** spill is considered an emergency. It is a spill that cannot be safely contained by staff or cleaned up and/or has made its way into the storm sewer system, stormwater pond, waterbody or groundwater table or is a threat to human health.

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1. The discharge is large enough to spread beyond the immediate discharge area;
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• 1-(866) 633-6686, available on a 24-hour basis.

2.

• NATIONAL RESPONSE CENTER  
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- Keep original filled form in the SWPPP folder.
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- MDE requires both verbal and written reports.
- No volume threshold mentioned.

41

Location of Spill/Release	<p>State of Maryland Department of the Environment Emergency Response Division 1001 Washington Blvd, Suite 400 Baltimore, Maryland 21201-2121 Phone: (410) 535-7300</p>	Notification Numbers
Cause of spill	<p>Product Name: _____ Container Type: _____ Transportation Incident: _____ Other: _____</p>	Amount Spilled/Released
Detailed Description	<p>Responsible Party: _____ City/State: _____ Phone: _____</p>	Cleanup Procedure
Signature	<p>Signature: _____ Print Name: _____ Title: _____</p>	

42

## A woman with blonde hair, wearing a blue blazer over a white top, sits behind a dark wooden desk. She is looking directly at the camera with a weary expression. The desk is completely buried under a massive, chaotic pile of papers, forms, and documents that reach all the way up to the ceiling. More papers are scattered all over the floor in front of the desk. The background is a plain, light-colored wall.

- **Document your compliance!!!**
  - permits,
  - inspections,
  - maintenance,
  - monitoring,
  - corrective actions,
  - spills,
  - secondary containment failures,
  - trainings & curriculum
- It all must go in the on-site SWPPP!

44

[illegible]

THE END

46

INSTRUCTOR: ALEX BOARD

LOCATION: TRANSIT

FREDERICK COUNTY  
ANNUAL REFRESHER SWPP AND SPCC TRAINING

SIGN IN SHEET

(Date/Time) 6/19/12 830-11 1/2 1230-2

PRINT NAME	TITLE	DIVISION AND FACILITY YOU WORK AT	SIGNATURE
1 Donald W. Crum	Asst. Superintendent	Highway Ops	Donald W. Crum
2 Gary Shankle	Foreman	Highway ops	Gary Shankle
3 Sharon Cooper	Asst. Foreman	Highway ops	Sharon Cooper
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			

HIGHWAY OPERATIONS

INSTRUCTOR: Alex Rood/Vivian Stone

LOCATION: LANDFILL

FREDERICK COUNTY

ANNUAL REFRESHER SWPP AND SPCC TRAINING

SIGN IN SHEET

(Date/Time) 6/20/12 8<sup>30</sup>-11<sup>30</sup>, 2<sup>30</sup>-4

PRINT NAME	TITLE	DIVISION AND FACILITY YOU WORK AT	SIGNATURE
1 <u>Ed Gale Reeder</u>	<u>Foreman</u>	<u>Myersville</u>	<u>Abdo Buck</u>
2 <u>Tony Kline</u>	<u>Foreman</u>	<u>Johnsville</u>	<u>David Lee</u>
3 <u>Tom Green</u>	<u>Ass. Foreman</u>	<u>Myersville</u>	<u>Tom Green</u>
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			

HIGHWAY OPERATIONS

INSTRUCTOR: ALEX BARNHARTT STINE

LOCATION: FCPS - HALLWOOD RD

FREDERICK COUNTY

ANNUAL REFRESHER SWPP AND SPCC TRAINING

SIGN IN SHEET

(Date/Time) 4/27/12 830-101030-12130-4

	PRINT NAME	TITLE	DIVISION AND FACILITY YOU WORK AT	SIGNATURE
1	William Rautahn	Superintendent	Highway Operations	<i>William Rautahn</i>
2	Mike Ramsburg	Maintenance Supervisor	Highways	<i>Michael Ramsburg</i>
3	Wayne Persinger	Maintenance Supervisor	Highways	<i>Wayne Persinger</i>
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				

Highway Operations

# Annual Suppp Training Myerstown

## STORMWATER POLLUTION PREVENTION PLAN (SWPPP) TRAINING COURSE

Cole Reeder

SIGN IN SHEET

Instructors Tom Green (Date/Time) 12-20-12 7:00 AM

	PRINT NAME	PAYROLL NUMBER Signature	FACILITY/LOCATION	TITLE
1	Mark winpiskur	Joe	Myersville Pond	
2	Johnny E Thompson	Johnny E Thompson	Myersville Pond	
3	Charles F Dillman IV	Charles F Dillman IV	"	
4	Lee Wolf	Lee Wolf	Myersville	
5	Steve Stottenger	Steve Stottenger	Myersville	
6	Ann BEVERUNGEN	Ann Beverungen	Myersville	
7	Randall W Boone	Randall W Boone	Myersville	
8	William D Beachley Jr	William D Beachley Jr	Myersville	
9	Robert Zentz	Robert Zentz	Myersville	
10	Tim Andrew	Tim Andrew	Myersville	
11	DAVID Eagle	David Eagle	Myersville	
12	DARCYL ELLIOTT	Daryl Elliott	Myersville	
13	Joseph Sellenbers	Joseph Sellenbers	Myersville	
14	Kenney Eagle	Kenney Eagle	"	

## 2013 ANNUAL STORMWATER POLLUTION PREVENTION PLANNING (SWPPP) TRAINING



Advanced Module



## Why do you have to be here?



- Because your facility operates under a **General Discharge Permit for Stormwater Associated with Industrial Activities**.
  - "General Discharge Permit"
- You will set the standard for the private sector in Frederick County

2

## Why do you have to be here?



More specifically:

- Under 2d of **Section E** of Frederick County's **Municipal Separate Storm Sewer System (MS4)** Permit the County must identify all county-owned facilities requiring a **NPDES discharge permit** and submit documentation that a permit has been obtained for each facility.
- But why me?
  - Because you are mgmt., SWPPP team member

3

## 2 options for County Ind. Facilities



- All County owned "industrial facilities" must submit a Notice of Intent (NOI) that a permit has been applied for or apply for **No Exposure Certification**
- All permitted facilities not eligible for No Exposure Certification must then develop a **Stormwater Pollution Prevention Plan (SWPPP)**.

4

## No Exposure?

- No exposure of any of the operations at the facility to PRECIPITATION.

C. Exposure Checklist		
Are any of the following materials or activities exposed to precipitation, now or in the foreseeable future? (Please check either "Yes" or "No" in the appropriate box.) If you answer "Yes" to any of these questions (1) through (8), you are not eligible for the no exposure exclusion.		
1. Using, storing or cleaning industrial machinery or equipment, and areas where residuals from using, storing or cleaning industrial machinery or equipment remain and are exposed to storm water	<input type="checkbox"/>	<input type="checkbox"/>
2. Materials or residuals on the ground or in storm water inlets from spills/leaks	<input type="checkbox"/>	<input type="checkbox"/>
3. Materials or products from past industrial activity	<input type="checkbox"/>	<input type="checkbox"/>
4. Material handling equipment	<input type="checkbox"/>	<input type="checkbox"/>
5. Materials or products during loading/unloading or transporting activities	<input type="checkbox"/>	<input type="checkbox"/>
6. Materials or products stored outdoors (except final products intended for outside use [e.g., new cars] where exposure to storm water does not result in the discharge of pollutants)	<input type="checkbox"/>	<input type="checkbox"/>
7. Materials contained in open, deteriorated or leaking storage drums, barrels, tanks, and similar containers	<input type="checkbox"/>	<input type="checkbox"/>
8. Materials or products handled/stored on roads or railways owned or maintained by the discharger	<input type="checkbox"/>	<input type="checkbox"/>
9. Waste material (except waste in covered, non-leaking containers)	<input type="checkbox"/>	<input type="checkbox"/>
10. Application or disposal of process wastewater (unless otherwise permitted)	<input type="checkbox"/>	<input type="checkbox"/>
11. Particulate matter or visible deposits of residuals from roof stacks and/or vents not otherwise regulated (i.e., under an air quality control permit) and evident in the storm water outflow	<input type="checkbox"/>	<input type="checkbox"/>

5

## Industrial Activities? Who me!?

- transportation facilities
  - (but only those who do vehicle maintenance)
- sewage treatment plants designed for over 1.0 MGD
- landfills
- recycling facilities
- etc.
- Considered "INDUSTRIAL"....

6



## 14 Industrial Frederick County Facilities

- 14 county facilities covered by a permit
- 1 was able to get no-exposure certified.
  - Green Valley Fire-Rescue Station
- The remaining 13 have developed SWPPPs
  - Fleet Maintenance:** LEC, TransIT, FCPS Hayward Rd, 331 Montevue,
    - Satellite yards: Johnsville, Thurmont, Urbana, Myersville, Jefferson
  - WWTPs:** Ballenger Creek, New Market, Jefferson
  - Landfill:** Reichs Ford

7

## The new Permit is coming !!!



All permitted facilities will need to:

- submit a Notice of Intent (NOI) for all facilities along with a Stormwater Pollution Prevention Plan (SWPPP)
  - MDE will be reading the SWPPP beforehand!
- quantify the acreage of the facility as **treated** versus **untreated impervious** surfaces

8

## The new Permit is coming !!!

- restore **20%** of the facility's untreated impervious surface w/in **4 years**.
- conduct quarterly **visual assessments** of stormwater discharges from all outfalls on the facility property
- If your facility drains to impaired or high quality ("tier 2") waters, you will have additional obligations
- Etc....



9

## OSER to the Rescue



- The County's Office of Sustainability and Environmental Resources (OSER) will be assisting as before.
- Relax, deep breath.

10

## What is stormwater?



- Stormwater is defined as precipitation runoff, surface runoff and drainage, street runoff and snow melt runoff.

11

## What's Wrong With This Picture?



12

## What's Wrong With This Picture?



13



14

## Typical Stormwater Pollutants

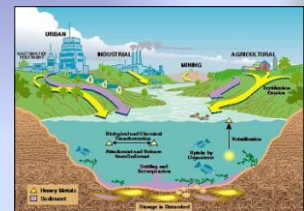
- Petroleum (oil, grease)
- Cooking grease/oils
- Sediment (soil)
- Salt
- Trash and debris
- De-icing fluids and coolants (glycols)
- Fertilizers, Herbicides, and Pesticides
- Fecal bacteria (pet & human feces)



15

## POTENTIAL EFFECTS

- Human health
  - Direct ingestion during recreation activities
  - Food chain
- Environmental
  - Benthic invertebrates
  - Fish
  - Birds
- Aesthetics
  - Odor
  - Visual (e.g., scums, sheens, etc.)
  - Garbage



16

## Storm (MS4) versus Sanitary Sewer



17

## 6 Typical Pollution Sources from Your Facility

1. Loading and Unloading Operations
2. Outdoor Storage
3. Outdoor Process Activities
4. Dust or Particulate Generating Processes
5. Illicit Connections and Non-Stormwater Discharges
6. Waste Management

-EPA

18

Uh oh!

Forklift + distracted driver + 55 gallon drum = STORMWATER POLLUTION



19

## ENVIRONMENTAL REGULATIONS



20

## Acronyms

- MS<sub>4</sub> = Municipal Separate Storm Sewer System
- NPDES = National Pollutant Discharge Elimination System

21

## Municipal Separate Storm Sewer System

- An MS<sub>4</sub> is a conveyance or system of conveyances that is:
  - Owned by a state, city, town, village, or other public entity that discharges to waters of the U.S.;
  - Designed or used to collect or convey stormwater (including storm drains, pipes, ditches, etc.);
  - Not a combined sewer; and
  - Not part of a Publicly Owned Treatment Works (sewage treatment plant).

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## NPDES

- As authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program **controls water pollution** by regulating point sources that discharge pollutants into waters of the United States.
  - **MS<sub>4</sub>s are considered point-sources of pollution!**

23

## It all starts with the CWA...sorta

- 1972 Federal Water Pollution Control Act (FWPCA)
  - No more point source pollution discharges into navigable waters!
  - It required permit to discharge wastes to public resources



24

## The “real” Clean Water Act



- Law suit by NRDC against EPA in 1976 for lack of adequate effluent standards led to amendments to FWPCA

...which came to be known as the CWA of 1977!

25



26

## CWA becomes WQA in 1987

- Water Quality Act (WQA)
- WQA treated certain **stormwater** discharges as “point source pollution”
- WQA established new schedules for **industrial & municipal stormwater** discharges into U.S. waters
- Establishes the **NPDES for stormwater**.

National Pollutant Discharge Elimination System



27



(EPA 2008)

...

- 1991- The U.S. EPA starts its Stormwater Program
- 1992 – Industrial facilities required to implement a stormwater pollution prevention program



29

## Allowable Non-SW Discharges

(MD 2008 MSGP, 1.1.3)

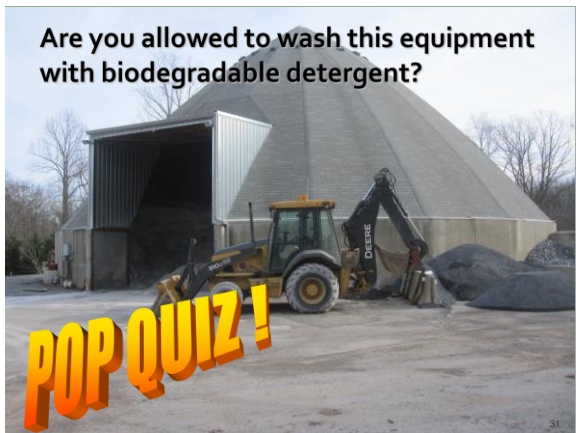
The following are the non-stormwater discharges authorized under this permit, provided the non-stormwater component of your discharge is in compliance with Part 2.1.2.10:

- Discharges from **fire-fighting** activities;
- Fire hydrant** flushings;
- Potable water**, including water line flushings;
- Uncontaminated **condensate** from **air conditioners**, coolers, and other compressors and from the outside storage of refrigerated gases or liquids;
- Irrigation drainage**;
- Landscape watering** provided all pesticides, herbicides, and fertilizers are applied in accordance with the approved labeling;
- Pavement wash waters** where **no detergents** are used and no toxic or hazardous materials have occurred (unless all are removed);
- Routine external building washdown that does not use detergents;
- Uncontaminated ground water or **spring water**;
- Foundation or **footing drains** where flows are not contaminated with process materials; and
- Incidental **windblown mist** from **cooling towers** that collects on rooftops or adjacent portions of your facility, but not intentional discharges from the cooling tower (e.g., “piped” cooling tower blowdown or drains).

**NOT MANY!**

30





What is a SWPPP?

- SWPPP = Stormwater Pollution Prevention Plan
- A site-specific, written document that:
  - Identifies potential sources of stormwater pollution at the industrial facility;
  - Describes stormwater control measures that are used to reduce or eliminate pollutants in stormwater discharges from the industrial facility; &
  - Identifies procedures the operator will use to comply with the terms and conditions of the General Discharge Permit.

***sometimes called a "P2 Plan"***

TYPICAL ACTIVITIES SUBJECT TO OVERSIGHT

Anything done outside and exposed to rain/snow:

- Fueling
- Maintaining Vehicles and Equipment
- Washing Vehicles and Equipment
- Loading and Unloading Raw Materials
- Liquid Storage in Above-Ground Tanks
- Salt Storage
- Dumpsters
- Soil/compost/sand stockpiles

What is a SWPPP, really?

It's really 2 things

- The paper PLAN
- The implementation of procedures and behaviors

Stormwater Pollution Prevention Plan Includes:

- Stormwater Pollution Prevention Team
- Site Plan
- Inventory Materials Exposed to Stormwater
- Implement Best Management Practices
- Employee Training Requirements
- Monthly Site Inspections
- Annual Site Assessment
- Spill Response Procedures

## The Team

- Whose on the TEAM?
- The stormwater pollution prevention team should consist of those people on-site who are most familiar with the facility and its operations.
- Key member(s): If an EPA or State inspector visits the facility, this person will be the main point of contact.
  - Should be on site DAILY.
- Who is on the team at your facility???

## The Team

- Are you "qualified"?
- EPA defines qualified personnel as "those who possess the knowledge and skills to assess conditions and activities that could impact stormwater quality at your facility, and who can also evaluate the effectiveness of control measures."

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## The Team

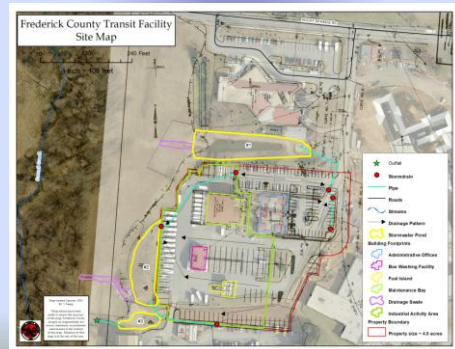
- Each member of the stormwater pollution prevention team should have ready access to either an electronic or paper copy of applicable portions of the industrial stormwater general permit and the SWPPP.

### 1.3 Stormwater Pollution Prevention Team

Staff Names	Individual Responsibilities
SWPPP Team Leader #1 Bill Routaben - Superintendent Highway Operations	<ul style="list-style-type: none"> <li>SWPPP team leader and emergency contact, with focus on all vehicles and equipment stored and operated on site having to do with Highway Operations, including salt barn activities.</li> </ul>
Donnie Crum, Assistant Superintendent Highway Operations	<ul style="list-style-type: none"> <li>Planning and supervision of all pollution prevention activities related to this SWPPP.</li> <li>Custodian of SWPPP and adds records and updates as necessary as a result of major changes in the facility's design, construction, operation or maintenance.</li> <li>Does Routine and Annual Comprehensive site inspections.</li> </ul>

9

## The SWPPP Facility Map



40

## Materials Inventory

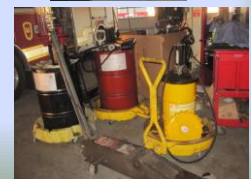
PRODUCT	BRAND
OMNI AE Hardener	PPG
OMNI Medium Reducer	PPG
OMNI Pak Master Blend	Sherwin Williams
Oxygen Tank	Energas
P68 Primer	IPS Corporation
Painters Touch Paint	Silo
Polyurethane Sealant	Silaflex 1A
Propane	Berco-O-matic
PVC Pipe Cement	IPS Corporation
Quik Color	Rust-O-leum
Red Grease	Berkelbile Oil
Ronex MP Grease	ExxonMobil

(1) 275-gallon automotive transmission (ATF) fluid tank (indoors at truck repair shop)  
 (1) 275-gallon new motor oil tank (indoors at truck repair shop)  
 (1) 275-gallon hydraulic oil tank (indoors at truck repair shop)  
 (1) 250-gallon waste oil tank (inside light duty repair shop)  
 (1) 500-gallon used motor oil tank (outside of truck repair shop)  
 (1) 150-gallon diesel (outside at diesel generator)  
 (1) 6000-gallon Caliber magnesium chloride solution (outdoors adjacent to salt barn)  
 (1) 5000-gallon Caliber magnesium chloride solution (outdoors adjacent to salt barn)

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## Typical Facility Best Management Practices (BMPs)

- Good Housekeeping
- Preventive Maintenance
- Visual Inspections
- Spill Prevention and Response
- Sediment and Erosion Control
- Management of Stormwater Runoff



42

## "Structural" BMPs

- Double-Walled Tanks
- Secondary Containment



43

## Good Housekeeping

1. EPA expects you to set an example for the private sector.
  2. EPA expects you to set an example for the private sector.
  3. EPA expects you to set an example for the private sector.
- Specific good housekeeping practices vary by facility...

44

## Good Housekeeping



- Regular pickup and disposal of waste materials and scrap equipment;
- Maintenance of clean work spaces;
- Routine inspections for leaks and of the condition of tanks, vehicles and containers;
- Routine inspections to make sure that industrial materials are properly stored and labeled;
- A schedule for sweeping paved areas and floors, including who will perform the sweeping (employee or contractor);
- The individual or position responsible for emptying drip pans placed beneath leaking equipment, valves, and fill lines.

45

## Employee Training

- All employees from a facility, once per year and all new hires upon entering workforce.

46

## Top 10 Common Compliance Failures at Industrial Facilities...



47



1. No SWPPP
2. Control measures described in SWPPP not used
3. No SWPPP on-site
4. SWPPP not signed
5. Stormwater pollution prevention team not up-to-date
6. On-site staff not familiar with SWPPP
7. Improper collection of visual assessment samples.
8. Uncovered dumpsters
9. Poor employee/contract staff training
10. Inspection or monitoring records are not kept with the SWPPP

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## PENALTIES

(2008 MD MSGP)



**Civil Penalties** Violations of permit conditions = fine of \$27,500 per day for each violation

### Criminal Penalties

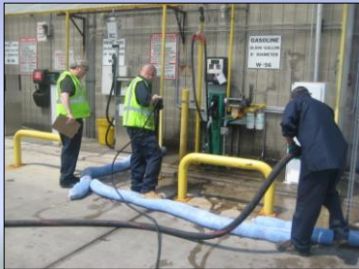
- Any person who **negligently** violates...is subject to a fine of not less than \$2,500 - \$25,000 per day of violation, or by imprisonment for not more than one (1) year, or by both.
- Any person who **knowingly** violates...is subject to a fine of not less than \$5,000 - \$50,000 per day of violation, or by imprisonment for not more than three (3) years, or by both.
- Any person who **knowingly** violates...and who knows at that time that he thereby places another person in **imminent danger of death** or serious bodily injury, is subject to a fine of not more than \$250,000 or imprisonment of not more than fifteen (15) years, or both.
  - Corporation subject to fine of \$1 Million.

49

## Spill Response and Notification

50

1. Minor vs. Major Spills
2. Response and Notification



51

## Minor Spills

- **Minor** spills are considered to be those of **less than 5-gallons** which pose no significant harm to human health or the environment and have not entered the storm sewer system, stormwater pond, water body or the groundwater table.



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## Minor Spill Response Procedures

- Stop leaks
  - Roll drums upright (hole pointing up)
  - Turn off process
  - Shut pipe valves
- Contain spills
  - Booms, pads, sand, dirt
- Divert runoff from spills away from storm drain inlets
- Patch leaks – temporary patch until a permanent solution is applied
- Recover/remove contaminated materials



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## Minor Spill Notification

- All minor spills must be documented by the SWPPP Team members or other designated personnel using the Spill/Release Incident Form (Attachment F)

1. Keep the original filled spill form in the SWPPP.
2. A copy of filled spill form must be sent to the Superintendent.
3. A copy of the filled spill form is sent to MDE.

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## MDE Reporting Requirements

- COMAR 26.10.01.03
- All oil spills onto land or water, including oil spills from vehicles, ships, boats, or vessels of any kind, must be reported to MDE immediately by phone (but not later than **2 hours** after detection).
- MDE requires written report as well within 10 days of clean up.
- No volume threshold for reporting!!!!**

55

## Minor Spill Notification Form

SPILL NOTIFICATION FORM			
Part A: Basic Spill Data			
Type of Spilled Substance	Notification Person		
Quantity Released	Spill Date and Time		
Location of Spill	Discovery Date and Time		
	Spill Duration		
Facility Name & Location	Release to: <input type="checkbox"/> air <input type="checkbox"/> water <input type="checkbox"/> land		
Frederick County Transit Facility 2400 Rocky Springs Road, Frederick, Maryland 21703	<input type="checkbox"/> spill <input type="checkbox"/> leak <input type="checkbox"/> overflow		
Owner / Company Name	Telephone		
Frederick County Fleet Services Frederick County Commissioners 12 E. Church Street Frederick, Maryland 21703	Facility: 800-400-1572 Fax: 301-400-1743		
Nature of spill and any environmental or health effects (e.g., odors, irritation, etc.)			
Part B: Notification Checklist			
Spill Type	Notification Date and Time	Name of Person that Received Call	Spills from Spill Kit Used
Spill is any amount of petroleum products: Fleet Services Per Hazard 302, 600-3588 or Valve Site 302, 400-2572 or 400-370-7000 (after hours) Maryland Department of the Environment (24 hours: 888-633-6886, or: 410-326-3931)			Public, Business, Regs. Officers Does Spill Kit need to be filled
Spill reaches groundwater or surface water: Maryland Department of the Environment (24 hours: 888-633-6886, or: 410-326-3931)			
Spill reaches ground/surface water: National Response Center 1-800-424-8802 Region 18 Response Center 333-347-3000			
Spill greater than 1,000-gallons or second event of greater than 42 gallons released in 12-month period: U.S. EPA Region-3 2000 Arch Street (SP-03) Philadelphia, PA 19103-2029 215-234-3000 or (800) 424-8874			

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## Major Spills = 911

- Major** spill is considered an emergency. It is a spill that cannot be safely contained by staff or cleaned up and/or has made its way into the storm sewer system, stormwater pond, waterbody or groundwater table or is a threat to human health.

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## Major Spill continued

- The discharge is large enough to spread beyond the immediate discharge area;
- The discharged material enters a storm drain or stream, lake;
- The discharge requires special equipment or training to clean up; and/or
- The discharged material poses a hazard to human health or safety.



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## CALL THE CONTRACTOR!

The county has a contract with the following emergency response contractors.

- DFRS / Hazmat**  
911 or non-emergency#  
301-600-1603
- Burns Septic & Tank Cleaning**  
2360 Dairyland Drive, Westminster  
1-877-89-BURNS
- Floyd E. Cline & Sons, Inc.**  
3434 Brethren Church Rd, Myersville  
301-293-2349



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## Major Spill Notification

- All major spills must be documented by the Stormwater Pollution Prevention Team members or other designated personnel using the Spill/Release Incident Form (Attachment F)
- SWPPP team leader or whomever is on site will contact BOTH:

1.

• MARYLAND DEPARTMENT OF THE ENVIRONMENT  
• 1-(866) 633-6686,  
available on a 24-hour basis.

2.

• NATIONAL RESPONSE CENTER  
• 1-(800) 424-8802, available on a 24-hour basis.

- Keep original filled form in the SWPPP folder.
- A copy of filled form must be sent to the Superintendent.
- A copy is mailed to MDE within ten days.

60

## N.R.C. Oil Spill Reporting Requirements:

1. Violate applicable water quality standards;
2. Cause a film or "sheen" upon, or discoloration of the surface of the water or adjoining shorelines; or
3. Cause a sludge or emulsion to be deposited beneath the surface of the water or upon adjoining shorelines

- NRC is the federal government's centralized reporting center, which is staffed 24 hours per day by U.S. Coast Guard personnel.

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## MDE Reporting Requirements

- All oil spills onto **land or water**, including oil spills from vehicles, ships, boats, or vessels of any kind, must be reported to MDE immediately (but not later than 2 hours after detection).
- MDE requires both verbal and written reports.
- No volume threshold mentioned.

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## Quarterly (Routine) & Annual Site Inspections

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## SWPPP CUSTOMIZED Routine Inspections

...10 pages

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## SWPPP CUSTOMIZED ANNUAL Inspections

- More comprehensive than quarterly form inspection.
- Might include:
  - Integrity testing of containment vessels with results documented.
  - Suggested modifications of behaviors or stormwater BMPs to better handle recurring spills
  - Updating SWPPP to reflect changes at facility, new buildings, new activities etc.



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## SWPPP CUSTOMIZED ANNUAL INSPECTIONS

Stormwater Industrial Facility Annual/Comprehensive Inspection Report

## SECTION A: GENERAL INFORMATION

**Facility Name:** Frederick County Highway Operations and Fleet Services  
- Frederick Facility

Facility Address: 331 Montevue Lane, Frederick, MD 21702

....17 pages

- Will also include review of all quarterly/routine inspection forms for the year.

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SWPPP **ANNUAL** INSPECTIONS

- **Original stays on site in the SWPPP.**
- **Copies** of all forms and record keeping documents must be submitted to Jessica Seipp with WMS by December 31<sup>st</sup> of each year.
- She can be reached at 301.600.1350 or [jseipp@frederickcountymd.gov](mailto:jseipp@frederickcountymd.gov).

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## RECORD KEEPING...



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## Record Keeping

- **Document your compliance!!!**
  - permits,
  - inspections,
  - maintenance,
  - monitoring,
  - corrective actions,
  - spills,
  - secondary containment failures,
  - trainings & curriculum
- It all must go in the on-site SWPPP!

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## Record Keeping

[illegible]

## Collage of Violations





## QUESTIONS AND ANSWERS?



73

THE END

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# sign-in sheet

Course name: SWPPP & SPCC

Date: June 20, 2013 Trainer: Brad Norton - Versar  
@ transit facility Valiree Stine - Fred. Co. Gov.

Name	Department / Division / Unit
Nancy Norris	Transit
Joe Ortega	Transit
Mike Ramsburg	Highway
Jason Savage	Highway
Wayne Persinger	Highway
Bill Rowtzahn	Highway
Donald Crum	Highway
Robbie Marwood	Fleet
Scott Wisner	Fleet
Keena Delauter	Fleet
Mark Schweitzer	DUSWM
Leon Miller	DUSWM
Sue Thompson	TRANSIT
DENNIS DEVILBISS	TRANSIT
Phil Harris	DSWM
James Connelly	DSWM
Valiree Stine	Fleet Services



# attendee, attendee, attendee, attendee, attendee sign-in sheet

Course name: SWPPP & SPCC

Date: June 24, 2013 Trainer: NEXI BOADO/VALERIE STINE  
@ Law Complex

Name	Department / Division / Unit
Doug Pearie	Office of Maint / DPW
Bruce Budhann	Maint / DPW
JAMES KLIPP	MAINT / DPW
GARY SHANKIE	Highway DEPT.
Robert Blentlinger	Fleet / LEC
Pat Hannah	Fleet
WAYNE HARRIS	FLEET
Mehal Trivedi	DUSWM
Todd Oyster	Fc Maint / DPW
Mark Meggitt	FCPS
Lauren Olsen	FCPS
Robert Wilkinson	FCPS

①

# attendee, attendee, attendee, attendee, attendee sign-in sheet

Course name: SWPPP # SPCC

Date: July 8, 2013 Trainer: ALEX BORDO/VALERIE STONE  
@ Law Complex

Name	Department / Division / Unit
ROY McHAFFA	BOE/WAREHOUSE MGR.
Fred Punturcio	FCPS DOT
Gale Reeder	Highway Myersville
Tom Green	Highway Myersville
Robert Unger	Highway Thurmont
JASON COOPER	Highway Sefterson
<del>Richard Croff</del>	Highway Johnsville
KEN Harft	DUSWM
Bob Money	DUSWM
Bruce Banet	Highway Thurmont
Tony DiFonzo	Fleet Services
Ben Boston	" "
Helen Stockman	Fleet Services
Blaine Gishall	Fleet Services
DAVID ERNIS	DPW
ROBERT TORBERG	Fleet Services

2

attendee, attendee, attendee, attendee, attendee  
**sign-in sheet**

Course name: SWPPP & SPCC  
Date: July 8, 2013 Trainer: ALEXI BADO/NAUREE STINE  
@ Law Complex

Name	Department / Division / Unit
<u>Gary Hill</u>	<u>F.C.P.S. Maintenance</u>
<u>Doug Mossburn</u>	<u>Highway</u>
_____	_____
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***ATTACHMENT H – Division of Public Works Standard  
Operating Procedures***





Division of Public Works  
Office of Highway Operations  
331 Montevue Lane  
Frederick, Maryland 21702

Effective  
Date:

9/23/2011

Page of

Division Director Signature:

## STANDARD PROCEDURES

Subject:

**Highway Operations  
Procedural Policies**

**Salt Management Plan**

### OBJECTIVE:

The objective of the Frederick County Salt Management Plan is to provide a framework for the Office of Highway Operations to deliver safe, efficient roadway systems during winter storm events in a cost effective manner while recognizing our obligation to do so in the most environmentally sensitive manner practicable.

#### 1. INTRODUCTION:

To be effective, the Frederick County Salt Management Plan contains principles that define the basic goals of our jurisdiction in delivering services to the travelling public while meeting agency missions. Common primary goals for Frederick County include the following.

### PUBLIC SAFETY:

Effective winter storm maintenance has a direct impact on the safety of roadway users and on the personnel performing the maintenance. In developing this plan, safety is considered the primary goal.

### ENVIRONMENTAL PROTECTION:

Since the use of salt in high concentrations can have a negative impact to the roadside environment and to the receiving waters of Frederick County, the development of Best Management Practices contained in this plan will consider practices that minimize the use of road salt, thereby reducing the environmental impacts.

### EFFICIENT TRANSPORTATION SYSTEM:

Efficient Frederick County transportation systems are necessary in maintaining the mobility necessary for economic stability and in providing safe transportation for the Frederick County motoring public during winter storm events. The Frederick County Salt Management Plan factors in these requirements.

### FISCAL RESPONSIBILITY:

Frederick County is bound by budgets that are determined by our governing body (Board of County Commissioners, Frederick County, Maryland). The Salt Management Plan must be within our financial capabilities.

### CONTINUAL IMPROVEMENT:

In order to progress in the reduction of chemical usage and the resultant environmental impacts, goals, technologies, practices, materials and equipment are annually reviewed to determine if changes or adjustments could bring about reduced environmental impacts. Since these changes may have a fiscal impact on current budgets, these changes may have to be incremental.

### LOCAL DEVELOPMENT OF SALT MANAGEMENT PLAN:

This plan has been developed to be specific to Frederick County. Because of varying climate, topography and traffic density areas salt application rates vary. The application rates and usage quantities are regularly monitored during and at the end of every winter storm. This provides for the opportunity for continual improvement for chemical usage.



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### 2. SAFETY & MOBILITY:

Frederick County is keenly aware of our goal to provide safety and mobility to the travelling public during winter storm events in a cost effective manner while attempting to minimize environmental impacts. During winter storms these desirable outcomes are difficult to achieve at times and often conflicts with each other. The main driving force in this conflict is the defined Level of Service (LOS) that Frederick County provides its citizens.

The (LOS) is determined by the road classification. Frederick County has four classifications of roadways.

- Priority Roads – Once four to six inches of snow has accumulated, Highway Operations concentrates snow removal efforts on those roads until such time as it is deemed appropriate to resume normal operations.
- Arterials or Primary
- Collector or Secondary
- Subdivisions and Gravel Surface

The different LOS's generally correspond to the roadway functional classifications. A high LOS provides the greatest degree of safety and mobility to motorists. It allows emergency responders to provide adequate response times and for citizens and businesses to carry out their daily operations during winter storm events.

### 3. ESTABLISHING GOALS FOR REDUCING ENVIRONMENTAL IMPACT OF SALT:

The principal tools used by Frederick County to achieve the desired LOS is plowing and salting. We constantly monitor the characteristics of different storms not only to adjust application rates but to project trends. Frederick County has also added Liquid Caliber as a binding agent as well as creating brine when applied. We are regularly looking for ways to reduce the amount of ice/snow melting materials that is used for winter storms.

### 4. EQUIPMENT & MATERIALS:

Winter operations require specific equipment and materials to obtain the desired LOS. The equipment and materials require proper storage, handling and maintenance.

#### TYPES OF WINTER MATERIALS:

Salt is the primary ice/snow control material used by Frederick County. It is used because it is effective for winter storms, inexpensive, easily stored and readily available. Salt is used primarily during storms when precipitation has already started to fall. With the innovations in winter maintenance, nothing has replaced salt in benefit, cost effectiveness and reliability. While it continues to be the most effective agent for winter storms, we will continue to search for ways to reduce the amounts of salt used.

The second material used is liquid deicer (Caliber). This is applied directly to the salt as it leaves the spreader. It is also utilized in pre-treating the road surface in advance of the winter storms. The liquid material increases residue effects on roads, accelerates the melting process and allows the salt to continue working at lower temperatures. It helps expedite clean up operations by not allowing the snow/ice to bind to the roads making it harder to remove. The addition of the Liquid Caliber has greatly reduced the amount of salt we use. The Liquid Caliber is a crop based product, biodegradable and environmentally friendly. It is cost effective and easily stored in sealed storage tanks at each of our facilities. It is carried on the trucks in tanks or hand sprayed directly onto the loads of our smaller trucks.

The last product is anti-skid aggregate. This does not provide ice/snow melting capabilities but works as a traction enhancer.





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### MATERIAL STORAGE & HANDLING:

Frederick County stores all of the road salt in barns or domes. These permanent structures are well-maintained and are inspected regularly throughout the year. The material is kept away from the dome/barn doorways to prevent spillage or leaking out of the structures. This keeps the material dry and granular year round. The floors of the structures are of impervious surface to prevent ground penetration. When loading from or dumping into the structures, any spillage of material is cleaned up and replaced into the structure.

All Liquid De-icing materials are stored in well-maintained, labeled, sealed storage tanks. Regularly scheduled maintenance is performed on the storage tanks to assure all parts are functional and there is no material leakage.

### FREDERICK COUNTY EQUIPMENT:

The Office of Highway Operations uses the most state of the art equipment. Trucks are well-maintained with front plows that are able to remove as much snow as possible. Effective mechanical removal equates to less salt that is needed throughout the winter event. All snow removal equipment is inspected and repaired annually before the start of the snow season. This includes the operations of the truck itself as well as all of the associated snow equipment.

The trucks are equipped with well-maintained spreaders and spinners that are capable of applying the required amount of salt at the most effective pattern in order to limit material waste. Spreaders are electronic and can be locked in specific application rates. This also provides salt data collection that is gathered after every winter storm. All salt spreaders are calibrated at the beginning of the season and periodically throughout the remainder of the season to assure maximum capability.

The Office of Highway Operations maintains a fleet of single axel dump trucks. The remainder of the truck fleet consists of numerous one ton dump trucks and all wheel drive pickups. Specialty equipment is also used, including front end loaders, graders and backhoes. These are used for major storms such as heavy accumulation and drifting.

### HIRED CONTRACT EQUIPMENT:

Frederick County employs contract snow removal equipment for normal operations as well as major events such as blizzards. This equipment is inspected and field calibrated prior to winter. Contractors are closely monitored by supervisory staff to assure quality snow removal.

#### 5. TRAINING:

Training is a critical component of salt management and a best practice in winter operations. The Office of Highway Operations conducts an annual "Snow Practice" to provide all field staff an opportunity to complete practical simulated evolutions in snow removal operations. We are now offering this practical training to our local municipalities. Dry runs are completed in the field to familiarize drivers and operators with their assigned snow runs. Drivers are instructed not to adjust the spreader application rate once the truck has been calibrated.

#### 6. WINTER STORM MANAGEMENT:

Winter storm management involves effective planning, execution and review. A key component of effective winter storm management is good weather and pavement condition forecasting. This is especially true 24-72 hours prior to a storm when planning is evolving and during the storm as we react and adjust due to changing conditions and during post storm cleanup operations.



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Frederick County relies on the National Weather Service (NWS) for accurate forecasts, Maryland State Highway Administration road temperature monitoring stations and our own in house weather monitoring system as tools for winter storm management. NWS provides the forecast for all member agencies in the Metropolitan Washington Council of Governments.

### WEATHER SENTRY IN HOUSE COMPUTER SYSTEM:

The Office of Highway Operations maintains an in house weather monitoring system. We monitor the approach of the storm and can plan our mode of operations during the storm. Having this system with radar capability helps us plan when we start our cleanup operations. We are able to plan our initial mode of operations and through constant monitoring, we adjust our operations accordingly. This information helps us reduce the amount of material we need as well as having an accurate idea of the conclusion of the storm.

### PRE-SEASON PLANNING:

An annual pre-season winter meeting is organized and held by the Frederick County Division of Public Works involving various police and fire/rescue agencies, Frederick County Public Schools, Frederick Community College and all of the local municipalities to coordinate for the upcoming winter season. All operational procedures are discussed at this meeting.

### PRE-STORM PLANNING:

Effective planning prior to storms will equate to better performance during the storm including more effective salt usage. Frederick County's pre-planning can begin as far as 72 hours in advance of a major storm. Typical pre-planning for a normal storm event is 18-24 hours in advance.

Resource planning begins well in advance of the storm. Pre-storm checks are done on all snow removal equipment to assure that it is in proper running order 24 hours in advance of the event. When applicable, all trucks are pre-loaded in anticipation of the storm onset. Fleet Services staff is also advised of the weather report to be able to plan accordingly and be prepared for any breakdowns that may occur during the storm.

In the case of a major storm event, pre-positioning of equipment may be applicable to accelerate the response time.

### ANTI-ICING OPERATIONS (PRE-TREATING):

The Office of Highway Operations, practices pre-treating of roadways whenever appropriate for a storm. This involves the placement of material (salt/caliber) to the road surface in advance of the storm. This is done to prevent bonding of the snow/ice to the road surface. This reduces the amount of salt usage as well as additional plowing later in the event. The application of pre-treating is evaluated before every storm. Pre-treating may not be used once a salt residue has built up on the road due to repeated winter events.

### WINTER STORM OPERATIONS:

Once precipitation starts to accumulate on road surfaces, the Office of Highway Operations begins de-icing operations. If a typical winter storm begins with light snowfall, the salt application is equally light. If the storm begins with moderate or heavy snowfall, applications are adjusted accordingly. In either instance, the material applied is pre-wetted. The wetted material adheres to the pavement reducing the amount of waste (bouncing off the road). The pre-wetted material also works faster. Applying the material to the road as early as possible prevents snow/ice bonding. This allows for effective plowing and lighter salt applications required throughout the storm.





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As the storm continues, we must adapt to changing conditions. The initial salt application will eventually lose its effectiveness. Plowing operations will then begin. The plow operator should apply just enough salt to keep the subsequent snowfall from bonding to the pavement and easy to remove. If the winter storm is associated with very cold pavement temperatures, salt should always be pre-wetted with a liquid dicer to increase effectiveness. By increasing the effectiveness of the salt, less will be required.

On multi-lane roads, plow trains are used. The entire surface is cleaned thus requiring minimal salt usage. The salt is applied to the plowed area only. The road will be manageable until the train is needed again.

Frederick County varies LOS during overnight hours. Depending on the type of storm, crews are taken off of the road for rest periods. At that time, we only respond to emergency calls. Very little salt is used during these periods as the melting process virtually ceases.

### SEVERE WINTER STORMS:

When heavy accumulations occur, Frederick County concentrates mainly on plowing operations. Salt applications are only used on a limited basis. As the storm ends, higher amounts of salt will be used to melt the accumulated snow from the road surface.

Freezing rain events present special challenges. During freezing rain, Frederick County uses a salt/liquid/anti-skid mix. Salt in some cases will wash off during freezing rain. The anti-skid provides traction for motorists. The anti-skid residue is removed from the road surface at the conclusion of the winter season via the use of a sweeper truck and the aggregate is recycled. In some cases of freezing rain, Frederick County pre-positions trucks on the designated runs to assure prompt response.

During blizzards or back to back heavy events, more intensive plowing operations are required. Minimal salt is applied during every plow cycle at a reduced rate. This avoids snow pack occurring on the travel lanes. The Office of Highway Operations gained valuable experience during the back to back blizzards of February, 2010.

### STOCKPILING & DISPOSAL OF REMOVED SNOW:

Stockpiling of snow occurs on a very minimal basis and has only been done once during a blizzard event to remove snow from a large subdivision. If this occurs, the snow will be piled in an environmentally friendly place.

### OPERATIONS IN SENSATIVE AREAS:

Frederick County is divided into Watershed areas. All salt usage quantities for every storm are reported to the Frederick County Office of Sustainability & Environmental Resources and that information is passed on to the Maryland Department of the Environment.

In previous years, before trucks were calibrated for salt usage, we used approximately 3,000 tons of salt per storm. Since calibration, we now average approximately 1,500 tons of salt per storm. The calibration of the trucks as well as the use of the crop based, environmentally friendly Liquid Caliber has successfully cut our salt usage in half.

### 7. POST STORM OPERATIONS:

Post storm operations include a variety of tasks including cleaning and repairing equipment, stockpile maintenance and operational reviews.

### EQUIPMENT CLEANING & MAINTENANCE:



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At the end of a winter storm, all equipment is first washed in a contained wash bay. The equipment is then inspected to identify breakdowns and defects. Once repair items have been identified, the equipment is scheduled with the Department of Fleet Services for repairs and readied for the next winter event.

### POLLUTION PREVENTION:

The County has developed a Storm Water Pollution Prevention Plan (SWPPP) for all six maintenance facilities. These plans address protocols, inspections, documentation and reporting for the features or practices that have potential negative impacts to the environment. These plans are maintained by the Department of Fleet Services and the Office of Highway Operations.

### MATERIAL CLEANUP AT STORAGE FACILITIES:

Immediately after a winter storm, all unused salt is returned to the covered storage facilities. Any material spillage that has occurred during the loading process during the storm is cleaned up and secured in the barn/dome.

### SALT SPILL PREVENTION:

Loader operators are instructed not to overload trucks. This avoids spillage from the sides and tailgates. If minimal spillage occurs, it is cleaned up and returned to the barn/dome. All Frederick County dump trucks have tail gate flaps (side fins). This keeps salt from spilling out of the sides of the tailgate. All spreaders have shields over the spreader opening to avoid direct spillage onto the fan.

### OPERATIONS REVIEW FOR CONTINUAL IMPROVEMENT:

Post storm reviews are conducted after every storm. What worked, what didn't work and what are our areas for improvement. This is especially true for significant storms. The blizzards of February, 2010 were a great learning tool.

### POST STORM DATA ANALYSIS:

Salt usage data is collected for every storm. All salt usage is now measured by lane mile and calibrated accordingly. All spreaders are electronically calibrated. Analysis of the salt usage data has cut our salt usage in half over the past several years by calibration and the liquid additive.

### LIQUID STORAGE TANKS:

All Liquid Caliber material is stored in labeled sealed tanks at each maintenance facility. These tanks are monitored for leaks and defects. Maintenance is scheduled immediately once leaks or defects have been found. For spill management for Liquid Caliber see Section 3.4 of the S.W.P.P.

### RECORD KEEPING & REPORTING:

Records are kept and completed at the end of every storm regardless of size. These reports are used to monitor salt usage, man hours, overtime, equipment usage, budget monitoring and possible additional funding needs to complete winter operations. The reports are also shared for lessons learned, identifying trends and possible modifications for the following year's winter season. This helps to project the budget for the following year.

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### ANNUAL WINTER WRAP UP MEETING:

A meeting is held at the end of every winter season to review all of the overall operations and identifying areas of concern such as salt usage, equipment performance and the overall handling of the various types of storms. These meetings over the years has led to a large decrease in salt usage, the addition of the Liquid Caliber material and keeping abreast of the always changing technologies.

### PUBLIC EDUCATION & OUTREACH:

Frederick County plans annual joint press release to include the Maryland State Highway Administration, City of Frederick and all County municipalities for public awareness for the winter season. This will highlight points of interest regarding winter operations for the agencies and help to promote SHA's "ICE & SNOW, TAKE IT SLOW" campaign. It will also emphasize to motorists and citizens to allow snow removal crews time and space to perform their snow removal operations. The release is typically planned for the November time frame.

During the winter events, progress updates are issued on a regular basis updating citizens and motorists regarding snow removal issues. The Office of Highway Operations maintains open phone lines for the public during winter storm events.

### TESTING & EVALUATION OF NEW MATERIALS, EQUIPMENT & STRATEGIES FOR CONTINUAL IMPROVEMENT:

Frederick County consistently evaluates the winter operations program. We keep abreast of new developments in equipment technology, various snow/ice melting products and review our snow removal operations on a regular basis. We have the most modern equipment and we review the material usage data to improve our salt usage quantities.

### SUMMARY:

Frederick County will continue in an attempt to improve our salt usage. We are staying abreast of updates provided by SHA in expanding and modifying their Salt Management Plan. We will pass this information on to the local municipalities of our County in order to help all of the various local agencies become more salt use conscious and more environmentally friendly.



***ATTACHMENT I – Materials Safety Data Sheet (MSDS) –  
Caliber M1000 Deicer***





## Material Safety Data Sheet

### Section 01: Product & Company Identification

**Product Name:** CALIBER M1000 WITH AP

**Manufacturer:** Innovative Group of Companies  
78 Orchard Road,  
Ajax, Ontario,  
LIS 6L1,  
Canada.

Effective date: March, 2006

**Emergency Phone Number:**

613-996-6666

24 Hours/Day: 7 Days/Week

**For More Information Call:**

1-800-387-5777

905-427-0318

**Trade Name:** Caliber M 1000 with AP

**Material Uses:** De-icing, Anti-icing

**WHMIS Classification:** Not Controlled

**Chemical Family:** Inorganic Salt Solution

### Section 2: Composition and Information on Ingredients

Components	CAS #	% by Weight
Magnesium Chloride	7786-30-3	27.0%
Proprietary Ingredients	n/a	6%
Corrosion Inhibitor	-	0.5%

### Section 3: Physical Data

<b>Physical state:</b>	Liquid
<b>Odor / Appearance:</b>	Odorless / Translucent Tan.
<b>Odor Threshold:</b>	n/a
<b>Specific Gravity:</b>	1.24 to 1.34
<b>pH:</b>	6.0 to 8.0
<b>Vapor Pressure:</b>	n/a
<b>Solubility in Water:</b>	100% at 20 C
<b>% Volatile:</b>	n/a
<b>Coefficient of water / oil Distribution:</b>	n/a
<b>Vapor Density:</b>	n/a

<b>Section 4:</b>	<b>Fire &amp; Explosion Hazard</b>
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<b>Flammability:</b>	No
<b>If yes under what Conditions:</b>	n/a
<b>Means of Extinguishing:</b>	n/a
<b>Special Procedure:</b>	None, Product can be used to extinguish fire
<b>Flash Point:</b>	n/a
<b>Upper Explosion Limit:</b>	n/a
<b>Lower Explosion Limit:</b>	n/a
<b>Auto Ignition temperature:</b>	n/a
<b>Sensitivity to Mechanical Impact:</b>	n/a
<b>Sensitivity to Static Discharge:</b>	n/a

<b>Section 5:</b>	<b>Reactivity Data</b>
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<b>Chemical Stability:</b>	Yes
<b>If No Under What Conditions:</b>	n/a
<b>Incompatibility to other Substances:</b>	No
<b>If So, Which ones:</b>	n/a
<b>Reactivity under What Conditions:</b>	n/a
<b>Hazardous Decomposition Products:</b>	n/a

<b>Section 6:</b>	<b>Health Hazards</b>
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<b>Route of Entry:</b>	Skin Contact, Eye Contact, Ingestion
<b>Effect of Acute exposure to material:</b>	Ingestion – large dose would cause gastrointestinal irritation
<b>Effect of Chronic exposure to material:</b>	n/a
<b>Exposure limit:</b>	n/a
<b>Synergetic Material:</b>	None
<b>Irritancy of Material:</b>	n/a
<b>Sensitivity of Material:</b>	None
<b>Carcinogenetic, Reproductive Effect:</b>	None

<b>Section 7:</b>	<b>First AID Measures</b>
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<b>Eye Contact:</b>	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately
<b>Skin Contact:</b>	Remove from skin by wiping and washing thoroughly with water
<b>Inhalation:</b>	Remove victim to fresh air
<b>Ingestion:</b>	If discomfort exists, induce vomiting. Seek medical attention immediately

<b>Section 8:</b>	<b>Preventative Measures</b>
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<b>Eye Contact:</b>	Wear Safety Goggles
<b>Skin Contact:</b>	Wear Rubber Gloves, Boots & Long Sleeve Shirt
<b>Inhalation:</b>	For dusty or misty conditions, wear NIOSH approved dust or mist respirator
<b>Engineering Controls:</b>	Mechanical ventilation recommended in enclosed areas
<b>Waste Disposal:</b>	Dispose of material in government approved landfill site in accordance with local laws
<b>Handling Procedures &amp; Equipment:</b>	Wash skin and equipment with water
<b>Storage requirement:</b>	Store in cool dry area
<b>Special Shipping information:</b>	No special shipping procedures necessary

<b>Section 9:</b>	<b>Preparation Information</b>
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<b>Prepared By:</b>	Innovative Group of Companies
<b>Telephone #:</b>	905-427-0318
<b>Preparation Date:</b>	March, 2006
<b>Superseded Date:</b>	November, 2005





***ATTACHMENT J – List of Materials Potentially Stored On-Site***



# MATERIAL SAFETY DATA SHEET

## CREW 13 - MYERSVILLE

### TABLE OF CONTENTS

DATE ADDED	PRODUCT	BRAND	COLOR
7/1/2010	Contents		
7/1/2010	OSHA Standards		
7/1/2010	15W-40 Motor Oil	Shell	
7/1/2010	2-Cycle Engine Oil	Stihl	
7/1/2010	Adhesive Removal	Quick 'N Easy	
7/1/2010	Air Tool Oil	Marvel	
7/1/2010	All Purpose Cement	Oatey	
7/1/2010	All Purpose Cleaner	Zep	
7/1/2010	Ameron Thinner	Ameron	
7/1/2010	Amershield Paint	Ameron	
7/1/2010	Anti-Freeze	ExxonMobil	
7/1/2010	Anti-Sease	Loctite	
7/1/2010	Bar & Chainsaw Lube	Stihl	
7/1/2010	Battery Coat	Zep	
7/1/2010	Brake Fluid	Johnson's	
7/1/2010	Brake Parts Cleaner	CRC	
7/1/2010	Brite Galvanize	Aervoe	
7/1/2010	Buff Wash	Master Chem	
7/1/2010	Carboline Protective Coatings	Carboline	Clear
7/1/2010	Clorox Cleaner	Clorox Company	
7/1/2010	Compressed Oxygen	Energas	
7/1/2010	Concrete Repair Mortar	W.R. Meadows	
7/1/2010	Corrosion Block	Pro-Chem	
7/1/2010	Crack Sealer	Henkel	
7/1/2010	De-icer	NAPA, Johnsens	
7/1/2010	Diesel Fuel	Marathon	
7/1/2010	Diesel Fuel Treatment	CRC	
7/1/2010	Dissolved Gas	Energas	
7/1/2010	Elastomeric Coating	Dow Corning	
7/1/2010	Epoxy Primer	Omni	Black, Gray
7/1/2010	Floor Paint	C&M, Gull, Behr, Glidden,	Base, White, Gray

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DATE ADDED	PRODUCT	BRAND	COLOR
		Valspar	
7/1/2010	Gasoline	Marathon	
7/1/2010	Gear Spray	BP	
7/1/2010	Glystar Pro	Agrisel	
7/1/2010	Gojo Wipes	Gojo	
7/1/2010	Gray Primer	Rust-O-leum	Gray
7/1/2010	Gum Cutter	Berkebile Oil	
7/1/2010	Heavy Duty Degreaser	Zep	
7/1/2010	Heavy Duty Silicone	CRC	
7/1/2010	Hornet & Wasp Spray	Ortho	
7/1/2010	Hydraulic Fluid	Warren Oil	
7/1/2010	Indoor/Outdoor Paint	Krylon	White
7/1/2010	Inforce	BG	
7/1/2010	Inverted Marking Paint	Krylon	White, Orange
7/1/2010	Lacquer Thinner	Klean-Strip, Crown	
7/1/2010	Liquid Anti-Spatter	Osborn	
7/1/2010	Liquid Cleaner Wax	Meguiar's	
7/1/2010	Lubra Seal	Rhomar	
7/1/2010	Lysol	Reckitt Benckiser	
7/1/2010	Masonry Cement	Lehigh	
7/1/2010	McCormick Paint	McCormick	White, Yellow
7/1/2010	Metal Master Enamel Paint	Davis Paint	Various
7/1/2010	MP100-32 Metal Primer	IPS	
7/1/2010	Multi-Purpose Cleaner	Chemtura	
7/1/2010	Olympic Paint	PPG	Various
7/1/2010	Perm e8	ISK Biocides	
7/1/2010	Pipe Cement	IPS	
7/1/2010	Pittsburg Paint	PPG	White
7/1/2010	Pointing Mastic	W.R. Meadows	
7/1/2010	Polyurethane	Tough Shield	
7/1/2010	Power Steering Fluid	Gold Eagle	
7/1/2010	Premium Absorbant	Oil Dri	
7/1/2010	Propane	Bernz-O-matic	

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## CREW 13 - MYERSVILLE

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DATE ADDED	PRODUCT	BRAND	COLOR
7/1/2010	Purple Primer	Oatey	
7/1/2010	Pyroplex EP Grease	Castrol	
7/1/2010	Ronex MP Grease	ExxonMobil	
7/1/2010	Roof Cement	Black Jack	
7/1/2010	Rust Preventative	Amsoil	
7/1/2010	Rustoleum Paint	Rust-O-leum	Gray, Various
7/1/2010	Salt Rinse	Total Solutions	
7/1/2010	Severe Weather Paint	Valspar	White, Neutral Base
7/1/2010	Silicone Caulk	Dow Corning	
7/1/2010	Spray Nine	Permatex	
7/1/2010	Starter Fluid	Master, Dieselmatic	
7/1/2010	Tar & Bug Remover	Radiator Specialty	
7/1/2010	Tenino Copper Naphthenate	Copper Care	
7/1/2010	Transmission Fluid	Mobil	
7/1/2010	Ultra Satin Paint	Behr	Deep, Base
7/1/2010	Urethane Converter	Carboline	
7/1/2010	Vandalism Mark Remover	United	
7/1/2010	Vinyl Cleaner	Meguiar's	
7/1/2010	Wabo Prima-Lub	Watson Bowman	
7/1/2010	Windex	S.C. Johnson	
7/1/2010	Windshield Washer Fluid	Camco	
7/1/2010	Zinc Filler	Carboline	